JVC



MODEL KD-A5 A/B/C/E/J/U STEREO CASSETTE DECK



KD-A5 A/C/J/U



KD-A5 B/E

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Specifica	ations	(
Type Power requirement	: AC 120 V AC 240/22 (KD-A5	20/120/100 V, 50/60 Hz	Playback torque Fast-forward or	: 4.76 cm/sec ± 2% : 2 x 30 minutes with C-60 cassette : 85 sec with C-60 cassette : 40-70 gr./cm
Power consumption)O)	Bias frequency	: 85 kHz
Motors Heads	: FG servo [DC motor : (For Metal		Input terminals	: MIC jack x 2 Max, sensitivity; 0.2 mV (-72 dBs) Matching impedance; $600\Omega-10k\Omega$
	_	/Playback; Sen-Alloy head ! gap, Sen-Alloy head		LINE IN jack x 2 Min. input level; 78 mV (20 dBs)
Frequency response		gap, Jen Andy nead		Input impedance; 100 k Ω
0 VU 20 VU	Metal tape CrO2 tape Metal tape	; 30–12500 Hz ; 30– 8000 Hz ; 20–18000 Hz (Nominal) 30–16000 Hz (Typical) ; 20–18000 Hz (Nominal) 30–16000 Hz (Typical)	Output terminals	: LINE OUT jack x 2 Output level; $0-0.3 \text{ V}$ Output impedance; $3-6 \text{ k}\Omega$ PHONES x 1 Output level; 0.3 mV Matching impedance; $8 \Omega - 1 \text{ k}\Omega$
Signal-to-Noise rati			DIN socket (KD-A5B/E)	: Min. input level $0.1\text{mV/k}\Omega$ Input impedance $3\text{k}\Omega$ Output level $0-300\text{mV}$ Output impedance; $5\text{k}\Omega$
Effect of Super AN	5 dB at 1 5 kHz with	e). The S/N is improved by kHz and by 10 dB above th ANRS on. I tape)	Semiconductors	Matching impedance; $50k\Omega$ or more: 10 ICs (1 hall element), 58 transistors, (KD-A5B/E; 62) 40 diodes (4 zener diodes) [KD-A5B/E
Improvement of S Improvement of f	S/N: the sam re- e: 0 VU recor	e as with ANRS rding; 6 dB at 10 kHz	Dimensions	41 (5 Zener diodes)] and 9 LEDs : Width; 420 mm (16-1/2") Height; 120 mm (4-3/4")
	+5 VU reco	ording; 12 dB at 10 kHz		Depth; 300 mm (11-7/8")
Improvement of distortion	+5 VU reco	rding; 3% less at 10 kHz ording; 3% or less at 10 kHz	·	: 6.8 kg (14.96 lbs) SCOTCH METAFINE or equivalent
Crosstalk Harmonic distortion:		HD; 10% tape at 1 kHz)	SF tape - MAXI	FDK SA or equivalent ELL-UD or equivalent ions are subject to change without notice.
Wow and flutter :			= 55.gir and specificat	

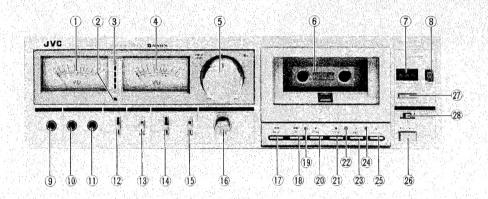
No. 4182

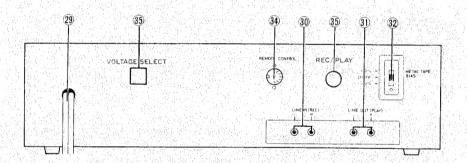
0.14% (DIN 45 500)

Features

- 4-position Tape Select Switches allow kinds of tape, including the new Metal Tape, to be used.
- Full logic control of the two-motor tape mechanism.
- SEN-ALLOY heads for REC/PB and erase.
 (An SA erase head with high erase efficiency is used so that Metal Tape can be erased.)
- IC-constructed ANRS (Automatic Noise Reduction System) and Super ANRS
- With the REC MUTE switch, you leave silent passages between program material.
- 5-point multi-peak level indicator.
- Timer standby capability for automatic start of recording or playback using an AC timer.
- Remote control terminal (for the optional remote control unit R:30E)

Controls and Connections

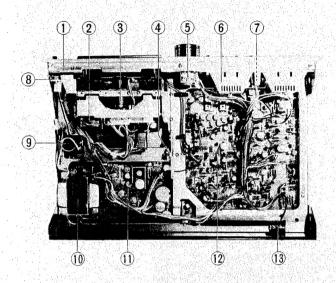




- 1 Left channel level meter
- 2 Super ANRS indicator (red)
- 3 Multi peak level indicator (red)
- 4 Right channel level meter
- 5 INPUT LEVEL controls (inner knob Left channel outer ring Right channel)
- 6 Cassette door
- 7 Tape COUNTER
- 8 Counter reset button
- 9 Headphone jack (PHONES)
- 10 Left channel microphone jack (MIC-L)
- 11 Right channel microphone jack (MIC-R)
- 12 INPUT SELECT switch
- 13 ANRS switch
- 14 15) TAPE SELECT switch
- 16 OUTPUT LEVEL control
- 17 Rewind button (◄◄ REW)

- 18 Fast-forward button (►►FF)
- 19 Playback indicator (green)
- 20 Playback button (► PLAY)
- 21 Stop button (* STOP)
- 22 Recording indicator (red)
- 23 Recording button (O REC)
- 24 Pause indicator (green)
- 25 Pause button (II PAUSE)
- 26 POWER switch
- 27 EJECT button
- 28 TIMER STANDBY select switch
- 29 Power cord
- 30 LINE IN (REC) terminals
- 31 LINE OUT (PLAY) terminals
- 32 Metal tape bias select switch
- 33 Voltage select switch (KD-A5A/B/E/U)
- 34 Remote control socket
- 35 REC/PLAY socket (KD-A5B/E)

Main Parts Location



Mechanical parts are the same as model KD-A6. See the service manual of KD-A6A/B/C/E/J/U (No. 4179 - page 4).

- 1. Front panel ass'y
- 2. DC solenoid ass'y for playback
- 3. Reel motor
- 4. Geared and oil-damped ass'y
- 5. Variable resistor (INPUT LEVEL control)
- 6. Meter cover
- 7. LED P.W. board ass'y
- 8. Hole element P.W. board ass'v
- 9. Power switch
- 10. Power transformer
- 11. Control P.W. board ass'y
- 12. Main amp. P.W. board ass'y
- 13. Metal switch P.W. board ass'y

Maintenance

To get long, trouble-free service, maintenance is important. Do not forget cleaning and demagnetizing.

Cleaning

After long, the heads and tape part — capstan, pinch roller, etc. — will become dirty with dust or magnetize particles. Dirty heads cause imperfect erasing or hogi frequency drop-off. A dirty capstan and pinch roller will cause unstable tape speed, leading to increased wow and flutter. Always keep them clean by following the procedure below.

1. Heads

- 1) Remove the front transparent cover.
- 2) Press the EJECT lever to open the cassette door.
- 3) Use the head cleaning stick to wipe the surface where the tape comes into contact with the head.
 - (It is effective to moisten the cotton with alcohol.)

2. Pinch roller and capstan

Perform the cleaning in the same manner as for the heads.

* Do not use any cleaner besides alcohol or a specifically prepared tape head cleaning solution.

3. Cleaning the cabinet and panel

Wipe the cabinet and panel clean with a soft cloth dipped in a neutral cleaner. Do not use thinner, benzine, alcohol or other strong slovents, as these will cause damage to the surface finish of the cabinet and panel.

Demagnetizing

The heads are made from a material resistant to magnetization, but after long use they may become magnetized. A magnet brough into their vicinity can magnetize the heads, causing excess noise. If noise seems to have increased, demagnetize the heads with a head demagnetizer through the following procedure.

- 1. Turn the POWER switch OFF.
- Wrap the tip of the demagnetizer with vinyl tape or soft cloth so as not to damage the head surface. Switch on the demagnetizer and bring it close to the head.
- Move the tip of the demagnetizer slowly first to the left and right, then up and down in front of the head.
 Gradually move it away from the head and switch it off at a distance of more than 30 cm (12").
- 4. The rase head need not be demagnetized. The capstan shaft and tape guide should be demagnetized in the same way as the record/playback head.
- Do not bring a magnetized metallic object (a screwdriver, for example) near the head as this will increase noise.

Oiling

Feed one or two drops of machine oil to the rewind roller shaft, pinch roller shaft and magnet pulley shaft once or twice a year under normal conditions of use.

Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Removal of the Main Parts

This cassette deck which features a compact design and high performance uses miniature-sized parts which are closely arranged. Take special care when servicing it.

ENCLOSURE ASSEMBLY

1. Cassette door

Depress the EJECT button to open the cassette door. Hold it upward (about 5 mm) to unlock its pawls - ① (left, right and lower sides).

Remove the cassette door to this side - (2).

- Lever knobs (INPUT SELECT, ANRS, TAPE SELECT 2 pcs.) –4 pcs. in total
 Pull them off to this side (3) .
- 3. Level control knobs (INPUT LEVEL L and R, OUT-PUT LEVEL)
 Pull them off to this side (4).
- 4. Top cover

 Remove 4 screws fastening the top cover 5.
- 5. Bottom cover

 Remove 4 screws fastening the bottom cover (6)
- 6. Front plate ass'y

 Remove 6 screws (3 screws on upper side and 3 screws on bottom side) 7 .

 (Removed with control switch ass'y)

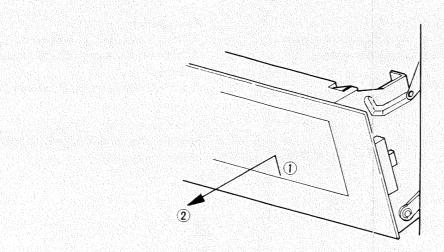
When adjusting or replacing REC/PB or Erase head

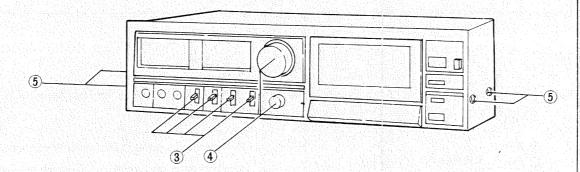
- 1) Remove the wires of the control switches from the wire clamps after having removed the top cover.
- Remove the 2 screws positioned below the control switches (on the bottom of the deck) and pull the control section forwards — no need of removing the front panel ass'y.

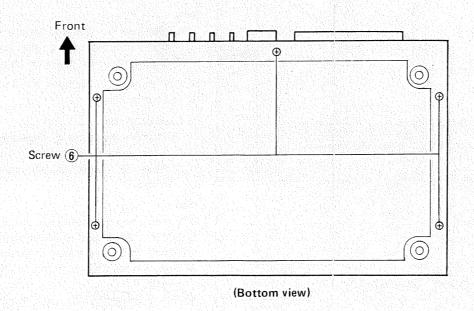
Caution:

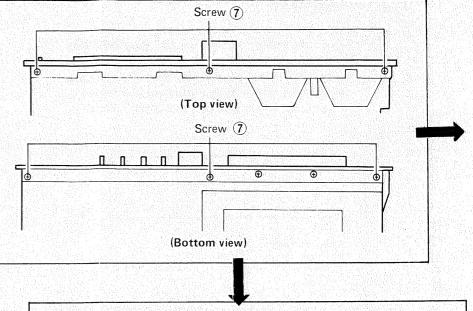
When assembling the control switch ass'y to the front panel, do in the order of the numbers as below so as not to damage the front panel.

- 1) Wrap the sharp edges of the front panel with vinyl tape,
- 2) Insert the control switch ass'y in the front panel.
- 3) Remove the vinyl tape.
- 4) Fasten 2 screws for the control switch ass'y.



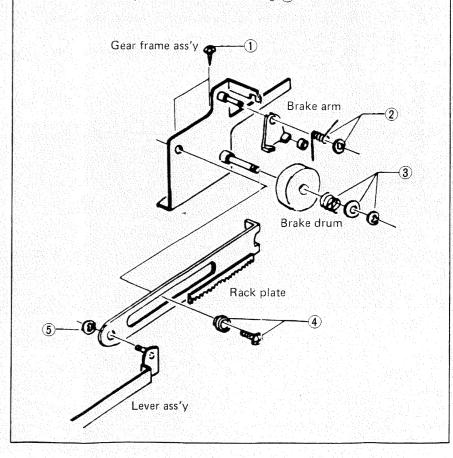






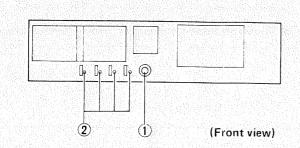
DOOR BRAKE AND ITS RELATED PARTS

- 1. Gear frame ass'y Remove 2 screws ①.
- 2. Brake arm and tire Remove the E-ring and torsion spring 2.
- 3. Spur gear and brake drum Remove the E-ring, and spring 3.
- 4. Rack plate Remove the screw and the collar 4.
- 5. Brake lever ass'y Remove the E-ring (5).

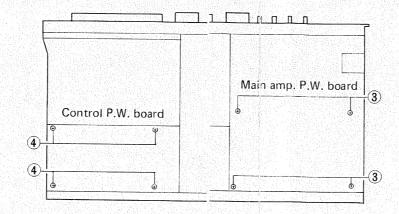


ELECTRICAL PARTS

- 1. Main amp. P.W. board ass'y
 - 1) Remove the washer and nut ① fastening the OUT-PUT LEVEL V.R. shaft.
- 2) Remove the 4 screws (2) fastening the 4 lever switches.
- 3) Remove the 4 screws ③ on the bottom side fastening the main amp. P.W. board ass'y to the amp. chassis.



2. Control P.W. board ass'y
Remove the 4 screws (4) on the bottom side fastening
the control P.W. board ass'y to the amp. chassis.

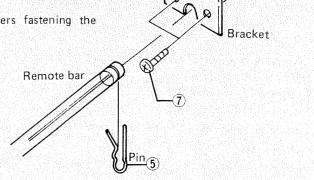


(Right side)

Screw 3

- 3. Power switch
- 1) Remove the pin 5 holding the remote bar.
- 2) Remove the screw (6) fastening the power switch bracket.
- 3) Remote the 2 screws 7 fastening the power switch.
- 4. Power transformer

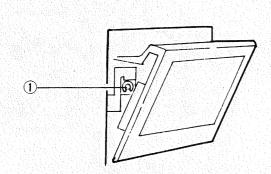
Remove the 2 screws and 2 washers fastening the power transformer.

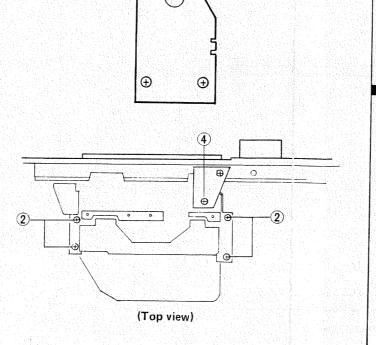


Power switch

MECHANICAL ASSEMBLY

- 1. Remove the screw 1 fastening the arm of gear-oil damper (left side of the cassette holder).
- 2. Remove the 4 screws (2) fastening the mechanical bracket to the amp. chassis.
- 3. Remove the screw 3 fastening the mecha. chassis to the front bracket.
- 4. Remove the screw 4 fastening the joint bracket to the front panel (upper side).





MECHANICAL PARTS

- 1. REC/PB head
- Remove the screw 1),
- Remove the screw 2 for head adjustment.
- 2. Erase head
- Remove the screw 3.
- Remove the screw 4 for head adjustment.
- 3. Pinch roller arm ass'y Remove the E-ring (5).
- 4. Supply reel disc Pull out the reel stopper 6.
- 5. Take-up disc Pull out the reel stopper (7).

 Remove the counter belt.

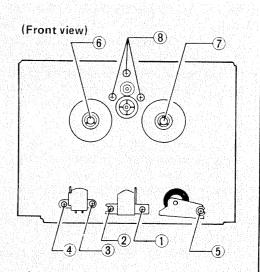
Note:

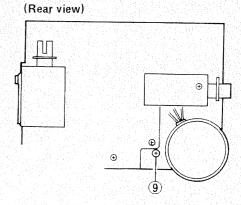
- 1) Remove the reel disc stoppers with a piece of sheet metal inserted between the reel disc and the stopper.
- 2) Be careful not to stain the counter belt.
- 6. Reel motor Remove the 3 screws (8) fastening the reel motor.
- 7. Capstan motor
 - 1) Remove the screw (9) fastening the rubber stopper.
- 2) Remove its motor belt.
- 3) Turn the motor counter clockwise and pull it for removal.

Note:

When replacing the motor, check the following items.

- Is the motor placed in the correct position?
 (Don't deflect the motor at mounting it.)
- 2) Does the capstan belt run in the center of the motor pulley?
- 3) Does the capstan belt run in the center of the flywheel?





Main Adjustments

[1] Equipment and measuring instruments used for adjustment

1. Electrical adjustment

- 1) Electronic voltmeter
- 2) Audio frequency oscillator (range; 50–20 kHz and output 0 dB with impedance $600\,\Omega$)
- 3) Attenuator
- 4) Standard tapes for REC/PB

 $\begin{array}{l} {\sf Maxell\ UD-SF\ tape} \\ {\sf TDK\ SA-SA\ tape} \end{array}$

or equivalent

SCOTCH METAFINE - Metal tape

5) Reference tapes for playback (JVC Test Tape) VTT-658 (for head azimuth adj.) VTT-656 (for motor speed, wow flutter adj.) VTT-664 (for Reference level 1 kHz)

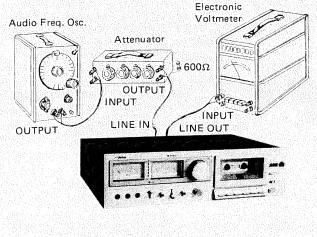
TMT-6266 (for playback frequency response) 6) Resistors 100Ω (for measurement of the bias current)

2. Mechanical adjustment

1) Gauge for checking the head position.

600 Ω (for attenuator matching)

- 2) Torque gauge
- 3) Blank tape (C-120) for tape running checker.

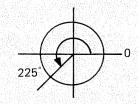


KD-A5

[II] Adjustment and repair of the mechanism TROUBLESHOOTING HINTS

1. Azimuth adjustment and head replacement

- 1) Remove the wires of the control switches from the wire clamps after having removed the top panel.
- Remove the two screws positioned below the control switches (on the bottom of the deck) and pull the control section forwards.
- 3) With the control section pulled out, azimuth adjustment and/or head replacement can be performed. With the JVC cassette deck series of KD-A6, KD-A5 and KD-A8 models, the adjustment or replacement can be performed more easily than with conventional cassette decks which require removal of the entire mechanical section for the adjustments and/or replacements.



2. Tape-to-head contact adjustment

- Turn the adjusting screw for aligning the erase head until it stops. Then, turn the screw in the reverse direction by 225° (a 5/8 revolution).
- Check the tape-to-head contact using a C-120 tape having pads.
- Check it again with a Metal tape.
 Checking method:
 Record a 400 Hz or 1 kHz signal with 0 VU + 20 dB.
 Erase the recording. Check if the erasing is satisfactorily performed.
- 4) After adjustment, apply screw bond on the adjusting screw to prevent its loosening.

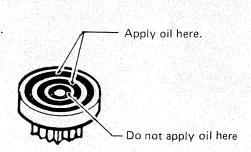
(Adjust the mechanism or confirm that it is in normal operating condition prior to the adjustment of the electrical circuit.)

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting record/ playback head position	 Connect an electronic voltmeter to the LINE OUT terminals. Play back the VTT-658 test tape. Adjust the head angle with the screw A until the reading of the electronic voltmeter becomes maximum for both channels. After adjusting, set the screw with screw bond. 	Screw A	Maximum	1. If the head is worn, disconnected or exceedingly magnetized so as not to provide the necessary characteristics, replace it with a new one. After replacement, the head position adjustment as well as the playback level adjustment, the bias current adjustment and the recording level adjustment are all necessary.

ltem	Adjustment	Adjusting point	Standard value	Remarks
Adjusting erase head height	Employ a special cassette (C-120) from which parts of the casing, where the erase head, record/playback head and capstan engage, has been cut away. Perform tape transport with the cassette tape. Adjust the screw C until the tape runs in the center	Screw C		2. If the output difference between the left and right channels exceeds 3–4 dB, the head is defective. Replace it with a new one.
c c	of the erase head tape guide. (See "Troubleshooting hints" aforesaid.) Correcting Discorrecting Tape guide Tape guide Tape Tape			Be sure to perform this adjustment after replacing the erase head.
Adjusting motor speed	Connect a speed meter to the LINE OUT terminals. Play back the VTT-656 test tape. Adjust the semi-fixed resistor in the motor until the reading of the speed meter is 3000 Hz.	Semi-fixed resistor in the motor case	3000 Hz	If the speed meter functions as a wow and flutter meter, also, connect the deck to the INPUT terminals of the meter.
Checking play- back torque	Employ a torque testing cassette tape for the checking, or remove the cassette cover and use a torque gauge.		40—70 gr-cm	If the standard torque is not obtained, replace the take-up disc assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		More than 70 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel disc circumference, the flywheel circumference, etc. 2. Replace the belt and idler.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		More than 70 gr-cm	If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, flywheel circumference, rewinding idler circumference, left reel disc circumference, etc.
Adjusting the auto-stop mechanism	Perform the adjustment with the 2-screws securing the solenoid.			
Checking wow and flutter	Connect a wow and flutter meter to the LINE OUT terminals. Play back the VTT-656 test tape. Check to see if the reading of the meter is within 0.04% (WRMS).			If the reading becomes moving value even if conforming to the standard, a re-claim may be raised. Repairs are necessary.

Damping gear oil

Oil employed — Torque grease specified by JVC (KANTO KASEI GP-608) Applying method — Apply in both concaved sections as shown in the figure.



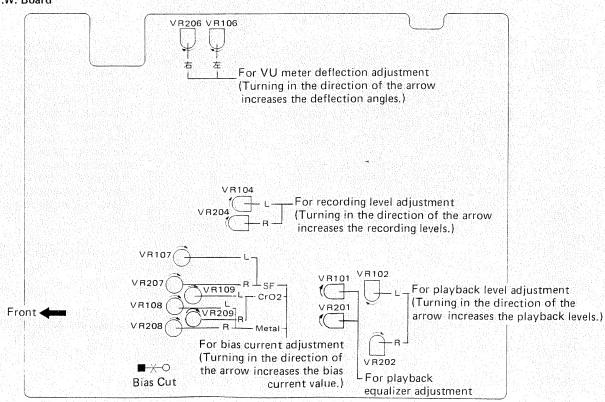
[III] Repair of wow flutter

If wow and flutter increase, check the following points. If there is defect in revolving parts, the wow and flutter generated will increase in proportion to the number of revolutions,

Section	Trouble	Repair
Capstan and flywheel	Capstan shaft has excessive run-out Flywheel turns heavily. (shaft seisure, thrust play, etc.)	Replace flywheel. Clean the capstan shaft and the groove in the flywheel. Apply oil to the metal position. Replace the capstan assembly.
Pinch roller	Rough rotation (Deformation scratches, or dust) The angular position of the pinch roller is not correct. The pinch roller pressure is not correct.	Replace pinch roller, or pinch roller spring. Clean the pinch roller or apply oil to the rotary shaft. Adjust the pinch roller so that it is parallel with the capstan shaft. Replace the pinch roller spring.
Belt	Belt has undue run-out. Belt is dirty or slippery.	Clean the belt. Replace the belt.
Back tension	Back tension is irregular, or back tension is too strong.	Replace back tension spring (under supply disc).
Motor	Motor shaft has undue run-out. Motor pulley is oily and dusty.	Replace motor. Clean motor pulley.

[IV] Electrical circuit adjustment location

Main Amp. P.W. Board



[V] Electrical circuit adjustment procedure

In the steps marked by an asterisk (*), adjustment should be performed, however, only checking is sufficient with steps other than those.

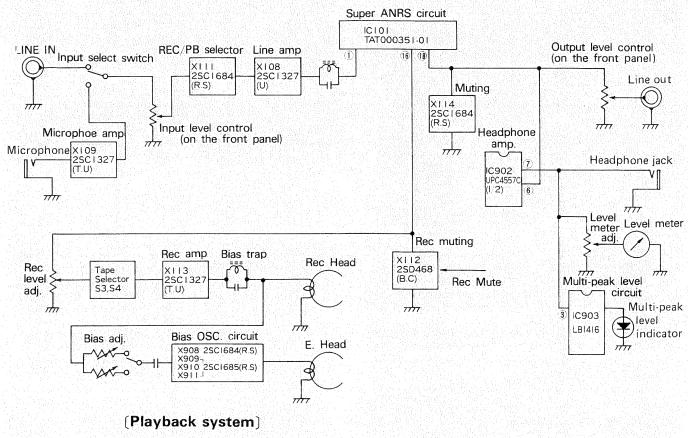
Adjustment should be performed in the order of steps 1, 2, 3

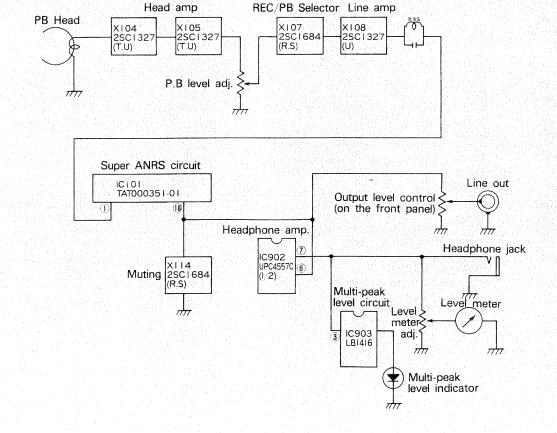
Step	Item	Adjustment	Adjusting point	Standard value	Remarks
1*	Playback frequency response	Play back test tape TMT-6266 for following adjustment. 1) Adjust VR101, 201 so that 6.3 kHz signal and 333 Hz signal gains become flat response. 2) If 10 kHz signal gain become less than 333 Hz signal gain, insert the receptacle wire (Lo or Mo) to its tab L1 (M1) or	6.3 kHz, response. again. If 10 kHz adjust VF	IOkHz signa If not flat, a signal inc R101, 201 tab for adju	n, check 333 kHz, als to become flat djust VR101, 201 rese and can not or not select the istment, open the
2*	Adjusting playback level	 Play back the VTT-664 Reference tape (1 kHz) with the equalizer switch set to the NORMAL position. Adjust VR102 and VR202 until the LINE OUT becomes about -8 dBs. 	VR102, 202	-8 dBs (0.3 V)	 This adjustment becomes necessary when a change in playback level results (for example, due to head replacement). Perform this adjustment with the ANRS switch set to OFF and with the OUTPUT level control set max.
3*	VU meter	 Set the cassette deck to its recording mode. Apply a 1 kHz, approx10 dBs signal to the LINE IN terminals. Adjust the recording level controls until the signal is available at -8 dBs at the LINE OUT terminals. Adjust VR106 and VR206 until the VU meters deflect to 0. 	VR106, 206	0 ∨U	Perform the adjustment when the parts are replaced.
4*	Checking record/ playback frequency response	Record 1 kHz, 50 Hz and 12.5 kHz signals at an input level of 0 VU -20 dB. Play back the tape. Check to see that the 50 Hz and 12.5 kHz signal output deviations fall within the standard range, using the 1 kHz signal output as a reference. (It is basically desirable that the 1 kHz, 50 Hz and 12.5 kHz signal outputs are the same.	For normal tape: VR107, 207 For chrome tape: VR109, 209 For Metal	frequency; 1 kHz 0 ± 3 dB	for both right and left channels.
5*	Checking recording bias cur- rent	Record 1 kHz, 50 Hz and 12.5 kHz signals at an input level of 0 VU —20 dB. Play back the tape. Adjust VR107 and VR207 (for a normal tape), VR109 and VR209 (for a chrome tape), VR108 and VR208 (for a metal tape) until the indicated deviation of the 10 kHz signal output from the 1 kHz signal output becomes 0. As no bias current at REC-PAUSE mode, must check recording bias current at REC-PLAY mode.	tape: VR108, 208	Output deviation: 0	1. Bias current adjustment for a cassette deck should generally be performed referring to the record/playback frequency response. This is because the frequency response of a cassette deck depends more greatly upon the bias current than does that of an open reel deck. The current measuring method described below is an alternative one. 2. If the bias current is not properly adjusted, the record and playback characteristics become as shown below.
				Response (dB)	Increase in high frequencies (with a small bias current) Optimum level Decrease in high frequencies (with a larger bias current) z 1kHz 10kHz Frequency (Hz)

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
		Alternative method 1. Set the deck to its recording mode. 2. Connect a 100 Ω resistor to the grounding terminal (+ terminal in playback) and the lead wire of the head as shown below. 3. Measure voltage at both ends of the resistor with electronic voltmeter.	Reference value With nor- mal tape; 30 mV With chrome tape; 42 mV With Metal tape: 65 mV		 In order to distinguish the — terminal of the head from its + terminal, touch the terminals with a finger while the deck is in the playback mode. The VU meters deflect when the — terminal during recording is touched. (For a record/playback head, the polarity is reversed according to whether recording or playback.) Be sure to employ a shielded wire.
6	Adjusting recording level	 Apply a 1 kHz, approx10 dB signal to the LINE IN terminals. Adjust the recording level controls until the signal is available at -8 dBs at the LINE OUT terminals. After checking to see if the VU meters point to 0, record the signal applied to both left and right channels using a normal tape. Play back the recorded part. Perform the recording signal adjustment with VR104 and VR204 so that the VU meters deflect to 0. 	VR104, 204	0 VU	The level difference between left and right channels for normal tape, chrome tape and metal tape should be less than 1 dB (1 VU). Perform the adjustment using a normal tape, level difference between recording and playback for CrO2 and metal tapes should be less than 1.5 dB, and that between left and right channels should also be less than 1 dB.
7	Checking record/ playback signal dis- tortion	 Record a 1 kHz, 0 VU -8 dBs signal to LINE IN terminals and perform recording with the VU meters pointed to 0. Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value. 		Normal tape; Less than 1.2 %	Be sure to perform this adjustment following bias current and recording level adjustments.
8	Checking signal to noise ratio in record- ing/play- back	 Record a 1 kHz, 0 VU signal. Stop the input by disconnecting from the terminal to perform non-signal recording. Play back the recorded part. Measure the 0 VU recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value. 		Normal tape; More than 42 dB Chrome tape; More than 42 dB	Apply an output (—72 dBs) to the MIC terminals with the recording level controls set to maximum so that the VU meters deflect to 0.
9	Checking erasing co- efficient	 Apply a 1 kHz signal to the LINE IN terminals. Adjust the recording level controls until the VU meters deflect to 0. Perform recording with the signal enhanced by 20 dB. Erase a part of the recording. Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter. 		More than 65 dB	For the measuring, connect a band pass filter between the deck and the electronic voltmeter. Input (1kHz OVU (recording, erasing)) Band pass Electronic voltmeter

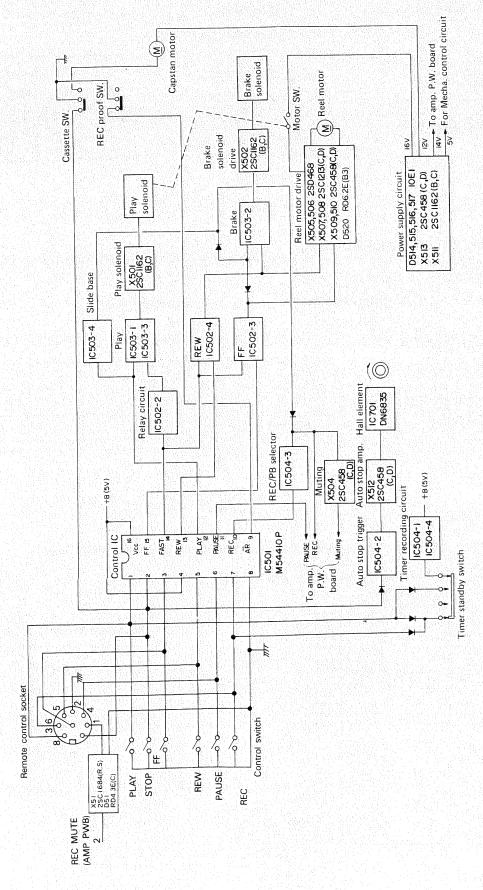
Block Diagram

Amplifier (Recording system)





[Mechanical control]



Integrant Circuit

IC101, 201 TAT000351-01 Super ANRS circuit

IC901 UPC4558C ANRS control amp. circuit

(Top view)

TAT000351-01 (Top view)
24 23 22 21 20 19 19 17 16 15 14 13
24 25 22 21 20 19 17 16 15 14 13

2 3 4 5 6 7 8 9 10 11

AMPLIFIER No. 2

OUT INV NON VCC-PUT INPUT INPUT

8 7 6 5

1 2 3 4

OUT INV NON VCC-PUT INPUT INPUT

AMPLIFIER No. 1

(Top view)

Vcc+0

RI

07

03

INV

INPUT 001 02

RS

RS

RS

RS

RS

OUT PUT

VCC-0

RS

RS

RS

RS

OUT PUT

Equivalent circuit (1/2)

IC902 UPC4557C

C4557C Headphone amp.

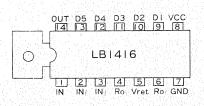
Top view is the same as UPC4558C.

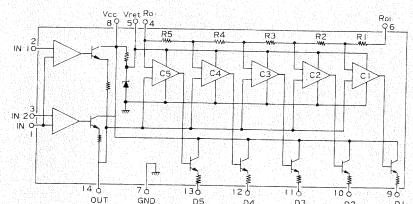
Equivalent circuit is the same as UPC4558C except R8 only.

IC903 LB1416

Multi-peak level circuit

Equivalent circuit

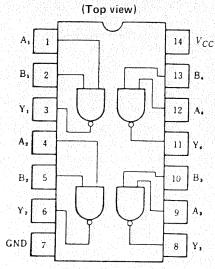


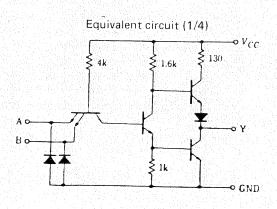


(Mecha. control)

IC501 M54410P See the service manual of KD-85A/B/C/E/J/U (No. 4165 - page 7).

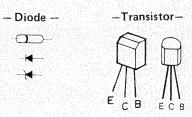
IC502, 503, 504 HD7400 or SN7400N





Standard Schematic Diagram of KD-A5 (Amprifier Circuit)

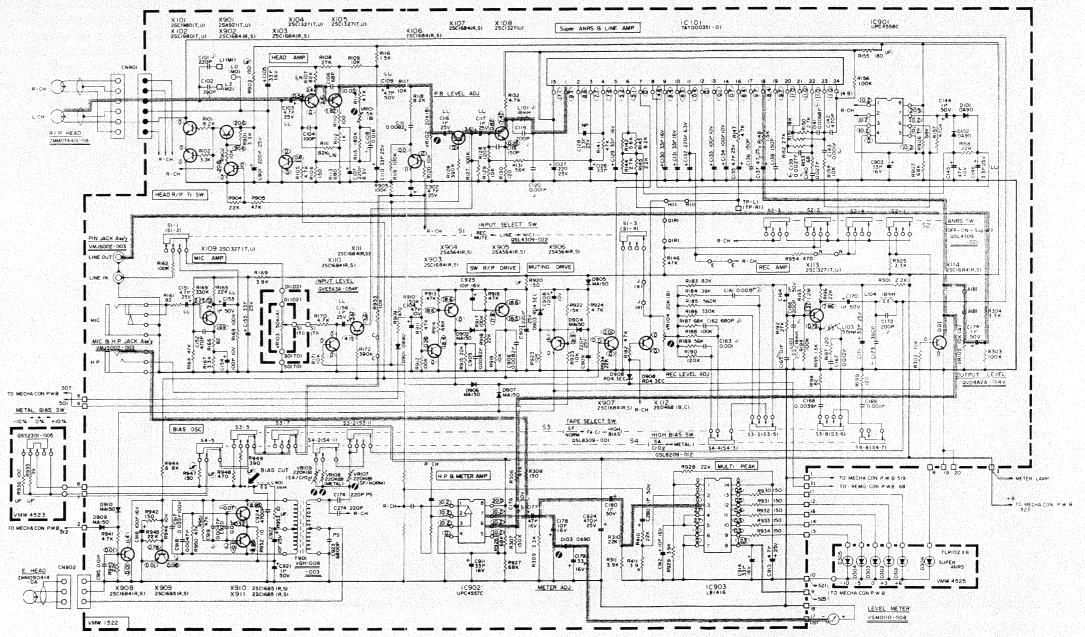
		1	2	3	4	5	6	7	8	9	10	H	12	13	14	15	16	17	18	19	20	21	22	23	24	ANRS
Taranta and Taranta		9.2	8.6	8.0	7.6	5.5	5.1	1.0	4.8	8.8	8.8	0.2	0	0	0.7	17.7	8.9	10.1	8.9	10.1	11,2	11.2	11.2	11.2	15.2	OFF
10101	C.Tester	9.0	8.5	8 1	7.9	5.8	2.0	1.0	0.5	9.0	9.0	0.2	0	0	0.8	18.1	9.0	10.3	9.0	10.3	11.5	11.5	11.5	11.6	15.7	ON
Antiqui (ve il). 🕒		0.3	8.63	7.7	7.6	5.2	5.1	5. 10.00	4.6	8.4	8.3	0.4	0	0.1	0.7	17.1	8.4	9.7	8.4	9.7	11.0	11.0	11.0	11.0	14.9	OFF
201	E.Voltmeter	9.2	8.5	8.0	8.0	5.5	2.0	A 17/16	0.6	8.8	8.8	0.4	0	0.1	0.7	17.8	8.8	10.1	8.8	10.1	11.4	11.6	11.4	11.4	15.4	ON
54400 V V	C.Tester	10.4	10.4	10.4	0	10,4	10.4	10.4	20.9																	
I ICAUL F	01.0010				20.00	1000	100	10.0	20 5																	



X5I	E	D	В	Remote Cont Rec Muting
	0	20.5	0	ON
C.Tester	0	0	0	OFF
	0	20.6	0	ON
E.Voltmetr	0	0	0.7	OFF

C.Tester 10.4 10.4 10.4 0 10.4 10.4 10.4 20.9

		C.Tester		E	Voltmet	er		
	#E	С	В	Ε	С	В		
	0	0	0.7	0	0.1	0.8	PLAY	
(101,201	0	0	0	0	0	******	REC	
	0	0	0.7	0	0	0.8	PLAY	
(102,202	0	0	0	0	0	皇が古り	REC	
	0	0	0	0.1	0	0	PLAY	
(103,203	0	0	0.7	0	0	0.8	REC	
(104,204	0	2.5	0.5	0	2.4	0.54	C. A. L. PRINCE	
	1.9	10.3	2.4	1.82	10.03	2.4	EXPAIL ONE	
and the street of the street	0	0	0	0.01	0	0	SF/NOR	
106,206	0	0	0.7	0.01	0	0.67	OTHER	
of deployment to the best of the second	3.4	3.4	4.0	3.66	3.66	4.21	PLAY	
107,207	3.4	3.4	0	3.60	3.00	0	REC	
The Control of the	3.4	7.5	U	3.00	7.47	14115-141		
108,208	0	±2	0.8	0.25	±2	0.82		
109,209	1.9	7.6	2.1	1.69	7.62	2.25	san akasm	
77 899 50	0	0	0.7	0.01	0.01	0.72	PLAY	
.110,210	0	0	0	0.01	0	0	REC	
VIII 011	3.5	1211-5	0	3.66	: 	0	PLAY	
X111,211	3.5	3.5	4.0	3.60	3.61	4.15	REC	
49 ft (2 V (2 + 2)	0	0	0.7	0.01	0	0.69	PLAY	TO ME
(112,212	0	0	0	0	0	1071	REC	
113 213	0.9	8.0	1.2	0.79	7.86	1.37		ME
25.15 (4.3) 271 (44	0	0.0	0	0	0.01	0	PLAY	-10
(114,214	0	0.0	0.7	0.01	0.01	0.72	PLAY/PAUSE	os
Takan da tahun 1994	16.5	16.5	15.9	16.24	16.11	15.48	PLAY	
(901	21.0	0	21.0	20.6	-	20.6	REC	
	0	0	0.7	0.01	0.02	0.68	PLAY	8
(902	0	21.9	0	0	20.6	0	REC	98
12 172 14 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0	0.7	0	0.02	0.62	PLAY	\$
(903	0	17.1	0	0	18.39	0.26	REC	UF
and the second second	19.1	19.1	18.4	18.84	18.75	18.12	PLAY	VM
(904	19.0	0	18.2	18.63	0	18.55	REC	TO ME
	19.1	0	18.3	18.84	0	18.55	PLAY	
905	19.0	18.8	18.2	18.63	18.50	17.92	REC	
<u>Na santa (Alfa Francia)</u> Na santa (Alfa Francia)	16.5	0	20.0	16.07	10.50	19.87	PLAY	
(906		16.0	15.2	15.52	15.48	14.80	PLAY/PAUSE	,
<u> Lagrando (</u>	16.0			0.01	1.02	0.01	PLAY	ZÞ
(907	0	1.0	0.7	0.01	0.01	0.71	REC	
<u> </u>	0	0 :		-	11.38	0.71	REC	
(908	0	12.7	0	0.01			OTHER	
	0	0 :	0.8	0	0.01	0.76		
(909	0	0	0.9	0.01	0.08	0.78	REC	
77	0	20.4	0.	0.00	20.2	0.01	OTHER	
(910	0.3	9.1	0	0.32	8.95	-0.07	REC	at SF/N
(104,204 (105,205 (106,206 (107,207 (108,208 (109,209 (110,210 (111,211 (112,212 (113,213 (114,214 (901 (902 (903 (904 (905 (906 (907 (908 (909 (910	20.4	21.0	20.0	20.2	20.6	20.5	OTHER	(Tape S
	0.3	9.1	0	0.32	8.95	-0.11	the Heli	



NOTES:

1. Unless otherwise specified, all resistors are 1/4 W, $\pm\,5\%$ carbon resistors.

And all capacitors are 50 V fixed ceramic capacitors or 50 V carbon resistors.

2. UF - Unflamable carbon resistor

MF - Metal film resistor

OMF - Oxided metal film resistor

Ta - Tantalum solid electrolytic capacitor

LL - +20% low leak current electrolytic capacitor

PP — Polypropylene capacitor

PS - Polystyrene capacitor

MM - Metallized mylar capacitor

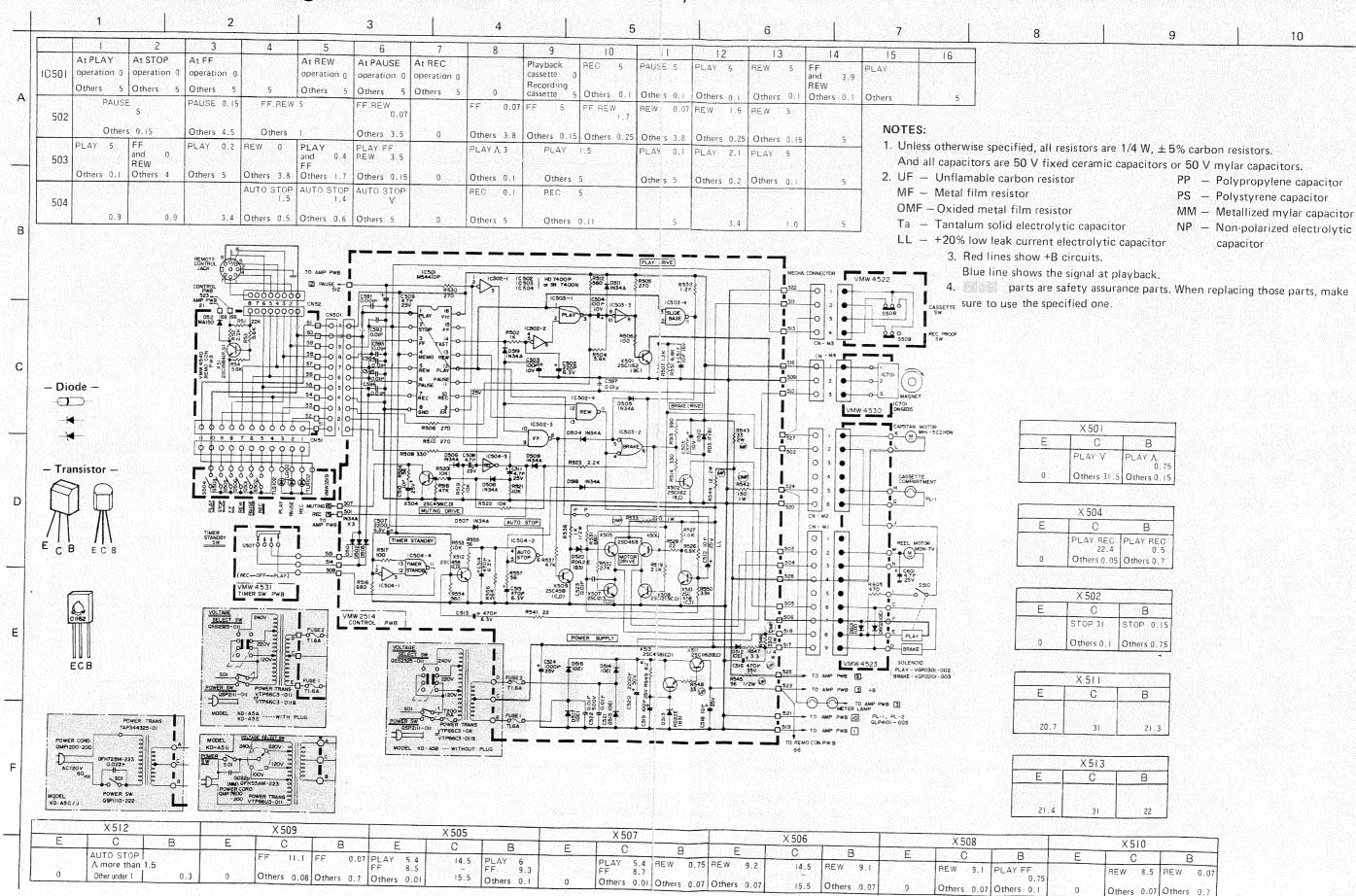
NP - Non-polarized electrolytic capacitor

3. Blue line shows the signal at playback.

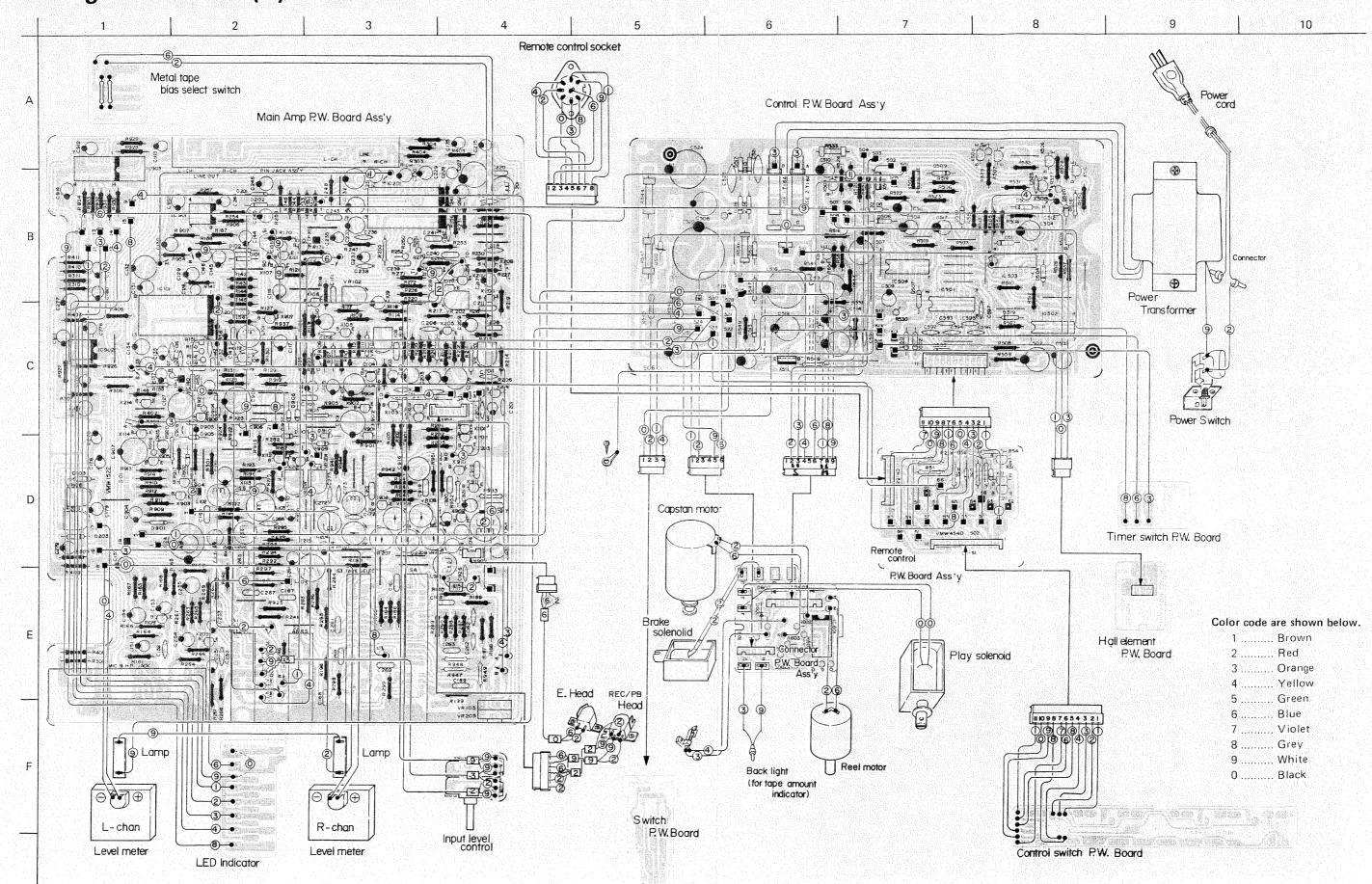
Red line shows the signal at recording and +B circuits.

4. parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Standard Schematic Diagram of KD-A5 (Mecha. Control Circuit)

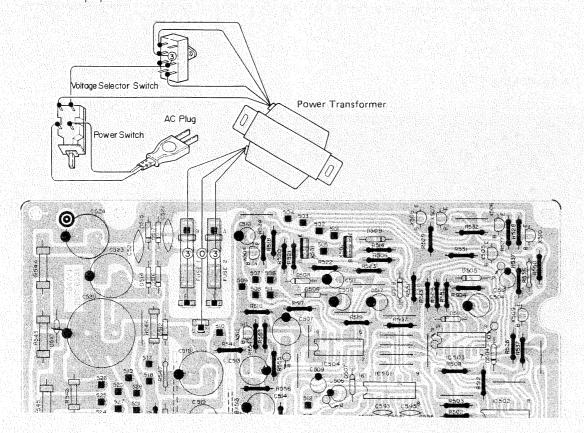


Wiring Connection (1) of KD-A5

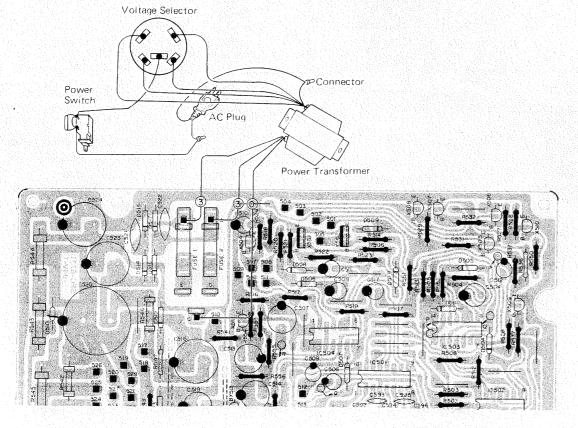


Wiring Connection (2) of KD-A5

KD-A5 A/B/E



KD-A5 U



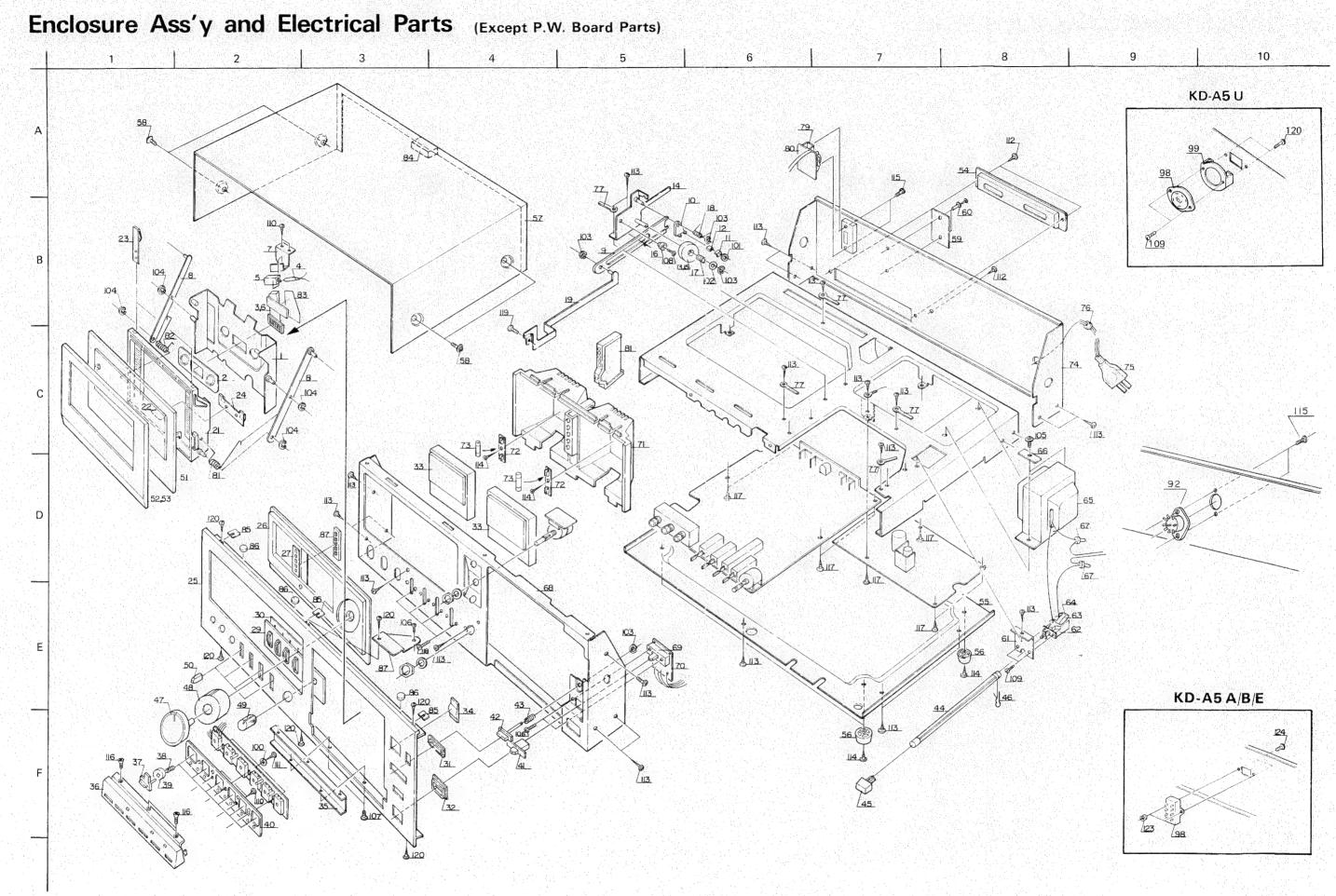
Enclosure Assembly and Electrical Parts List (Except P.W. Board Parts)

 \triangle Parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

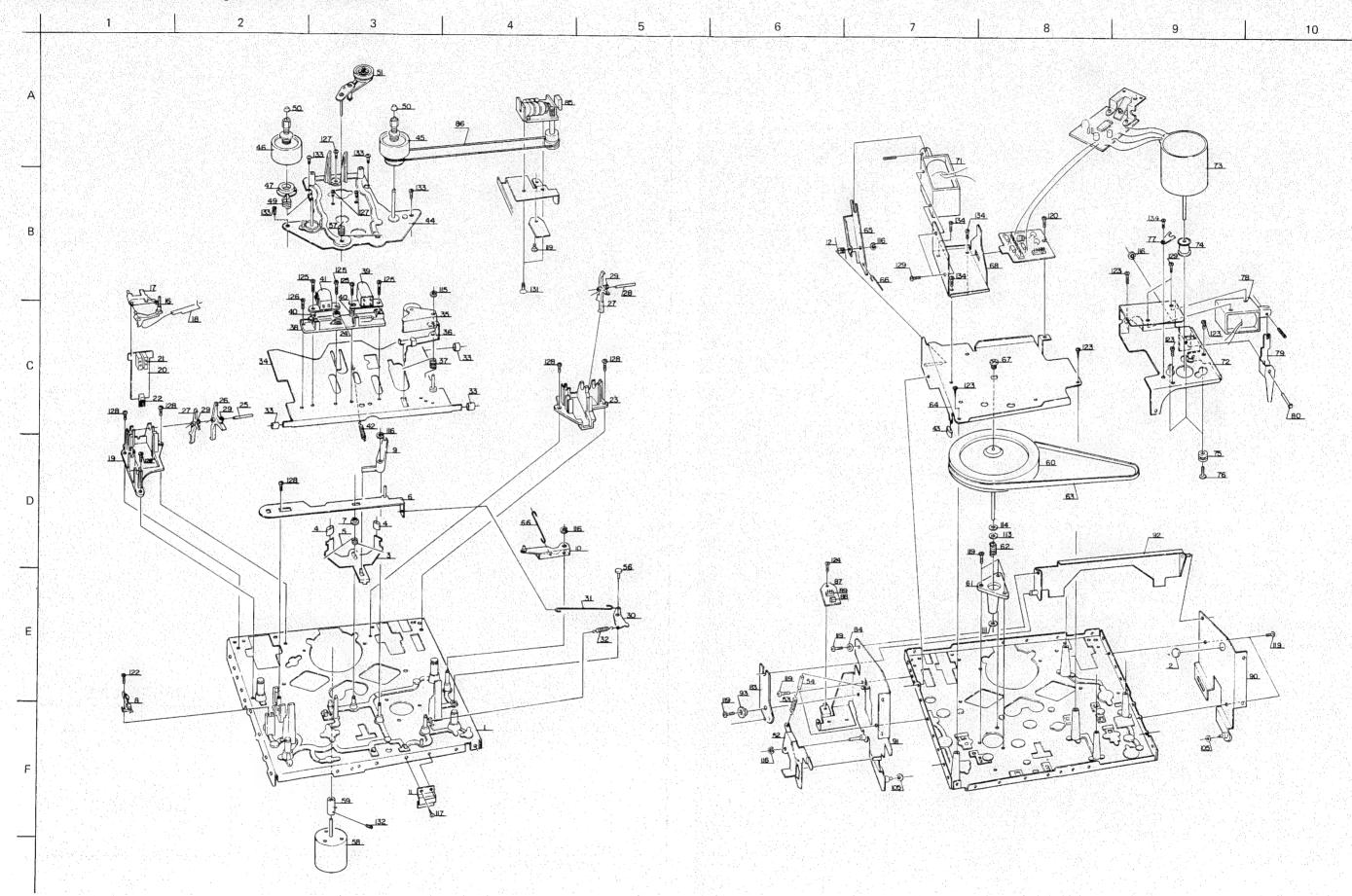
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VKL3178-00B	Holder Plate Ass'y		
2	VKL4213-002	Panel Plate		1
3	VJD4273-001	Indicator		1
4	T47861-001S	Pilot Lamp		1 1
5	VKW4133-001	Knob Spring		1
6	VKZ4120-001	Sheet		
7	VKL4507-001	Lamp Bracket		1
8	VKL4380-00A	Cross Bar Ass'y		2
9	VKS3102-001	Rack Plate		1
10	VKS4110-002	Brake Arm		1
11	VKL4271-001	Rubber Retainer		1
12	VKZ4111-001	Rubber Tire		1
13	VKS4109-004	Brake Drum		1
14	VKL4169-00A	Gear Frame Ass'y		1
15	VKS4108-003	Spur Gear		1 1
16	VKZ4123-001	Collar		1
17	VKW3001-006	Spring		1
18	VKW4106-001	Torsion Spring		1
19	VKL4488-00A	Arm Ass'y		1
20	VKZ4112-001	Stop Ring	£ A A / O	1
21			for Arm Ass'y — Cassette Holder	1
21	VJT2024-002	Cassette Lid		1
23	TJL344518-02 VKY4156-001	"SA" Mark		1
23 24		Cassette Spring (1)		2
	VKY4157-001	141		1
5-32,34	ZCKDA5Y1-CBF	Front Plate Ass'y	KD-A5A/C/J/U	1 set
	ZCKDA5Y2-CBF		KD-A5B/E	1 set
26	VJD2135-002	Meter Escutcheon		1
27	VJD4256-001	LED Plate		1
28	VJD4257-001	LED Cover		1 1
29	VJD4294-001	Lever Escutcheon		1
30	VYTA435-001	Blind		1
31	VJD4259-001	Button Escutcheon	for Eject	1
32	VJD4295-001		for Power	1
33	VGM0110-008	Level Meter		2
34	TJE349408-02	Counter Lens		1.1
35	VKL4440-001	Switch Bracket		1
36	VJD3167-001	Button Case	KD-A5A/C/J/U	
	VJD3167-002	<i>"</i>	KD-A5B/E	i
37	VXP4023-002	Push Button		6
38	VKW3001-019	Compression Spring		6
39	VYSH203-001	Button Spacer		6
40	VKS4147-001	Switch Holder		1
	VXS4019-001	Knob	for Timer Switch	
	VXP4024-00A	Knob Ass'y	for Eject	
	VKW3001-031	Compression Spring		1
	VKS4148-001	Remote Bar		1
	VXP4032-001	Knob	for Power Switch	1
	E48981-001	Stopper Pin	for Power Switch	
		Knob Ass'y	for Input (Right channel) KD-A5A/C/J/U	1
CONTRACTOR OF THE CONTRACTOR O	VXL4060-00A	11100 A33 Y	The property of the party of th	
47	VXL4060-00A VXL4068-00A		KD-A5B/E	1
47	VXL4068-00A	Volume Knob (R) Ass'y	for Input (Left channel) KD-A5A/C/1/L	1
47	VXL4068-00A VXL4061-00B	Volume Knob (R) Ass'y Knob Ass'y	for Input (Left channel) KD-A5A/C/J/U	1
47	VXL4068-00A VXL4061-00B VXL4067-00B	Volume Knob (R) Ass'y Knob Ass'y Volume Knob (L) Ass'y	for Input (Left channel) KD-A5A/C/J/U KD-A5B/E	1
47 48 49	VXL4068-00A VXL4061-00B	Volume Knob (R) Ass'y Knob Ass'y	for Input (Left channel) KD-A5A/C/J/U	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
51-53	ZCKDA5Y-CCA	Cassette Lid Ass'y		1
51	VJT3031-001	Cassette Door		1
52	VJT3032-001	Door Plate		1
53	VJZ4008-001	Double Face		1
54	VJD3168-001	Jack Escutcheon		1
55	VKL1139-001	Bottom Cover		1
56	VJF3001-001	Foot		4
57	VKL1138-001	Top Cover		1
58	VKL3001-002	Special Screw		4
59	VYN2047-002GA	Name Plate	KD-A5A	1
· · · · · · · · · · · · · · · · · · ·	" -001GA	11	KD-A5B	1
	" -003GA	"	KD-A5C	1
	" -004GA	**	KD-A5E	1
	" -005GA		KD-A5J	1
	" -006GA	**	KD-A5U	1
60	E48729-002	Plastic Rivet		2
61	VKL4441-001	Switch Bracket	for Power Switch	1
62	QSP2111-011	Push Switch	KD-A5A/E (Power SW)	1
02	" -011BS	"	KD-A5B (Power SW)	I
	QSP1110-222	,,	KD-A5C/J (Power SW)	+
	" -221	11	KD-A5U (Power SW)	
63	QFA72BM-223	M.P. Capacitor	KD-A5C 0.022 μF	
03	QFH72BM-223	M.M. Capacitor	KD-A5J "	
	QFH53AM-223	", Capacitor	KD-A5U "	1
64	T47047-001	Condenser Boot	KD-A5J/U	
65	TAP344324-01	Power Transformer	KD-A5A/E	
00	TAP344324-01BS	rower transformer	KD-A5B	
	TAP344325-01	"	KD-A5C/J	
	VTP66U3-011	**	KD-A5U	
66	F4932-002	Special Washer	for Power Transformer	2
67	TAW000504-01	Connector		2
68	VKL1136-001	Front Bracket		1
69	QSS2301-101	Slide Switch	for Timer Switch	1
70	VMW4531-001	P.W. Board	for Switch	1
71	VK\$2104-001	Lamp Hood	Tot GWITGH	li
72	QMG1121-003	Lamp Holder	for Lamp	2
73	QLP4101-005S	Lamp	VJZ4006-001 = Lamp Shade	2
73 74	VKL1137-003	Rear Bracket	KD-A5C/J	1
74	" -004	"	KD-A5A/U	1
	′′ -005	11	KD-A5A/6 KD-A5B/E	1
75	QMP2560-200	Power Cord with Plug	KD-A56/E	1
/0	QMP9017-008BS	Power Cord	KD-A5A KD-A5B	1
	QMP1200-200	Power Cord with Plug	KD-A5B KD-A5C/J] 1
	QMP3900-200	" " " " " " " " " " " " " " " " " " "	KD-A5E	1 1
	QMP7600-200		KD-A5U	1
76	QHS3876-162	Strain Relief Bushing	KD-A50 KD-A5A/C/E/J/U	1
, 0	" -162BS	"	KD-A5B	1
77	VKZ4001-010	Wire Holder		3
77 78	VK\$4146-001	LED Holder		1
79	QSS2301-006	Slide Switch	S5	1
80	VMW4533-001	P.W. Board		1
81	VKW4153-004	Holder Spring (R)		1
- U I	* 1 C 11 - 1 00 00 -	indiadi opinig (11)	1	('

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
84	VYSH106-028	Spacer		1
85	T47818-002	"		3
86	TJF338415-01	Foot		3
87	VKL4503-001	Bracket		1
88	VKZ4001-011	Wire Holder		3
89	VYSR108-003	Spacer		1
90	VYSH103-009	**		1
91	VKL4506-001	Transformer Bracket		1
92	QMC0888-008	DIN Socket Ass'y	for Remote Control	1
93	QMG1321-002BS	Fuse Holder	KD-A5B	1
94	QMF51A2-R20LBS		KD-A5B	1
	*TAZ000509-08	Fuse Seal	KD-A5B	1
98	QSS2325-011BS	Slide Switch	KD-A5B, for Voltage Selector	1
	" -011	"	KD-A5A/E "	1
	QSR0084-001	Voltage Select Switch	KD-A5U	1
99	VKL4275-001	Bracket	for Voltage Select SW. (KD-A5U)	1
100	Q03095-206	Washer	D. 1.1 - T.	1
101	Q03093-524	"	Rubber Tire	1
102	QNS2600Z		Gear Frame Ass'y	1
103	REE2000	E Ring	Spur Gear x 1, Arm Bracket x 1, Eject Knob x 1	3
104	REE2500		Head Plate Ass'y — Cross Bar Ass'y	2
105	DPSP4012ZS	Screw	Power Transformer	2
106	LPSP2604Z	71	Timer Switch x 2, Bracket x 1	
107	LPSP2606Z	"	Bottom Case	2
108	LPSP2608Z	,,	Spur Gear Power Switch x 2, Voltage Select SW x 2	1 4
109 110	LPSP3006ZS SBSB2606Z	Tanning Saraw	Lamp Bracket x 2, Switch Holder x 2	4
111	SBSB2610Z	Tapping Screw	Switch P.W. Board	3
112	SBSB3005R	"	Rear Bracket x 1, Jack Cover x 2	3
113	SBSB3005K SBSB3006Z	**	Gear-oiled Damp Ass'y x 2, Bottom Cover x 5,	26
113	303030002		Mecha. Ass'y x 4, Switch Bracket x 2, Front	20
			Bracket x 6, Rear Bracket x 4, Lug x 1, Wrapping	
			Terminal x 1, Fuse Holder (KD-A5B) x 1	
114	SBSB3008Z	"	Foot x 4, Fuse Holder x 2	6
115	SDSP2605R	Screw	for P.W. Board (VMW4533-001), Remote Socket x 2,	5
	J. 200011		Slide SW (S5) x 2	
116	SSSP2604N	"	Button Case — Switch Bracket	3
117	SBSB3006V	"	Amp. P.W. Board x 4, Control P.W. Board x 4	8
118	LPSP3006VS	"	Lever Switch	4
119	SDBP2005N	"		1
120	SDSB3006Z	"	front plate	3
121	WNS4000N	Washer		2
122	WLS4000	Lock Washer		2
123	NTB3000S	Nut	KD-A5A/B/E/U for Voltage Selector	2
124	SDBP3010RS	Screw	"	2
	333.33.01.0			



Mechanical Component Parts



Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks.	O'ty	
1	VKL1118-00D	Chassis Base Ass'y		1 set	
2	VYSR201-003	Spacer		1	
3	VKL4361-002	Brake Bar		1	
4	VYSF101-012	Spacer		2	
5	VKW4145-001	Brake Bar Spring	for Brake Bar	1	
6	VKL4362-001	Lock Bar		1	
7	VKZ4005-001	Stopper	for Brake Bar	1	
8	VSH1102-001	Leaf Switch		1	
9	VKS4135-00A	Lock Lever Ass'y		1	
10	VKL4366-00A	Play Arm Ass'y		1	
11	VKL4479-001	Flywheel Cover		7 1	
12	VKW4149-001	Play Solenoid Spring		1	
13	T44341-001	Rubber Tire		1	
16	VKS4142-001	Push Arm (1)		1	
17	VKS4143-001	" (2)			
18	VKW4141-001	Push Arm Spring	일본 사람들은 얼마를 가는 얼마나를 하고 있다. 그렇게 잘 되었다.	1	
19	VKS3109-001	Switch Holder (L)		1	
20	VMW4522-001	P.W. Board (L)		1	
21	QSP0029-001	Slide Switch		2	
22	QMV5004-004	Connector	김동희 문문 영화 마르는 바로 하는데, 그는 생각 작은 내고 하다.	1	
23	VKS3110-001	Switch Holder (R)	. [일다]하고 있는 하고 있는 항상 하다 다른 것은 사람들이 되었다.	1	
24	VKH4215-001	Head Collar	for Erase Head	1	
25	VKH4196-001	Shaft		1	
26	VKS4136-001	Switch Lever		1	
27	VKS4137-001	Pressure Lever		1	
28	VKH4196-002	Shaft	클릭하는 아이는 사람들은 아이들은 그 사람들은 그렇다는 것	1	
29	VKW4138-001	Pressure Lever Spring		3	
30	VKL4399-001	Eject Safety Lever		1	
31	VKW4142-001	Connecting Wire		1	
32	VKW3002-004	Spring	[[[[[[[[[[[[[[[[[[[[[1	
33	VKZ3003-001	Rubber Tube	되고 이번 그림, 그리스 얼굴하고 되하는 하는 동안하다 경험했다.	3	
34	VKL4370-00C	Slide Base Ass'y		1	
35	VKP4105-00A	Pinch Roller Bracket Ass'y	그들은 발표하는 사람들은 사람들은 사람들은 사람들이 되었다.	1	
36	VKL4371-001	Push Arm		1	
37	VKW4139-001	Pinch Roller Spring		1	
38	VKS2102-001	Head Mount Base		1	
39	ZMM074401-0D	REC/PB Head Ass'y		1	
40	VKW3001-020	Compression Spring	for REC/PB and E Heads	2	
41	ZMM090414-0A	Erase Head Ass'y		1	
42	VKW3002-005	Tension Spring	for Slide Base	1	
43	TEP357469-02	Stopper		1	
44	VKL3155-00A	Reel Disk Bracket Ass'y		1	
45	VKR4113-00A	Take-up Reel Ass'y		1	
46	VKR4118-00A	Supply Reel Ass'y		1	
47	VK\$4130-001	Back Tension Base		1	
49	VKW3001-026	Compression Spring	for Back Tension	1	
50	VKS4131-001	Reel Stopper		2	
51	VKS4151-00A	ldler Ass'y Unit		1	
52	VKL4484-001	Lock Lever		1	
53	VKW3002-027	Spring		1	
54	TJN265559-04	Silencer	for Spring	1	

Ref. No.	Parts No.	Parts Name	Remarks	Q't
56				
57	VKW4134-001	Idler Spring	일이 없는 말이 되어 있었다. 그 아이들의 사람은 사이를 받았다. 그들은 중심 생각	1
58	MDN-7V	Reel Motor	불러 없는 항공 등 사람들은 이 사람들은 한 모든 일을 하는 말을 하는데	1
59	VKR4121-001	Motor Pulley	교회원 전문에 보는 조금 등록 하는 사람들은 사람들이 되었다.	1
60	VKF3107-00A	Flywheel Ass'y		1
61	VKF3103-00B	Capstan Metal		1
62	T30301-137	Spring		1
63	VKB3001-007	Capstan Belt	경기 등 경기 시작 전 경기 전 경기 전 경기 전 경기 전 경기 등 경기 등 경기 등 경기	1
64	VKL4372-00B	Flywheel Holder Ass'y	도를 받았다. 이 전하는 것은 것이 되었다. 그 것이 없는 것이 없는 것이 없는 것이 없다. 사람들은 것이 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.	1
65	VKL4368-002	Play Solenoid Lever		1
66	VKW4137-001	Connecting Wire		1
67	TEP357456-01	Thrust Screw	흥리는 항상 화가를 보면서 되었다. 그리고 하는 사람이 그로 만나죠	1
. 68	VKL4398-002	Play Solenoid Bracket	레스 강화가 하나 하나 하나 하나 다 하는 것이 없다.	1
71	VGP0301-002	D.C. Solenoid Ass'y	for Play	1
72	VKL3161-002	Motor Bracket	일하는 생물에 있다는 것이 되었다. 그는 것이 되었다는 것이 되는 생각이 되는 것이 되었다. 현실 사람들 회사 사람이 많은 것이 되어 있는 것을 하는 것은 것이 되었다. 그렇게 하는 것이 되었다.	1
73	MH15C2HDN	D. C. Motor	for Capstan	1.
74	VKS4139-002	Motor Pulley	많이 하고 있을 것 같은 사람들은 사람들은 사람들은 사람들이 되었다.	1
75	TER357465-03	Cushion Rubber	프를 발하다. 전환 학교 환경 환경 등 대표를 받는다.	3
76	VKZ4109-001	Motor Screw		3
77	TFB345469-01	Rubber Stopper	등 [발생님] 그리고 하는데 하다가 된 그릇을 몰라왔을 하였다.	1
78	VGP0201-003	D.C. Solenoid Ass'y	for Brake	1
79	VKL4363-002	Lock Solenoid Lever	그렇다 하고 아무리 하는 사람이 되는 것이 없는 사람들이 되었다.	1
80	VKH4194-001	Shaft	물물은 학교가 하는 마음을 하고 되는 사람들은 생활을 다 살았다.	1
82	T43909-008	Metal		1
83	VKL4485-00A	Eject Lever Ass'y		1
84	VKW4156-001	Shaft Arm Spring	님 [[문문] 그리는 사람 없는 방식으로 그런 경찰에 들었다고요?	1
85	VKC5122-001T	Counter Ass'y	도 보이 있다고 하는 이 사람이 얼마나 얼마를 살아 하지?	1
86	VKB3000-012	Counter Belt		1
87	VMW4530-001	P.W. Board		1
88	DN6835	Hole I.C.	농 [일반 : 10] 전 [2] 이 나는 보았는 그는 [2] 모르고 말았다.	1
89	QMV5005-003	Connector		1
90	VKL4487-00B	Mecha. Bracket (L) Ass'y	네 화학의 아이트 등에 놓는 얼마나는 그는 말했다. 이 등에 다음	1
91	VKL4486-00A	" (R) Ass'y		1
92	VKL4403-00B	Shift Arm Ass'y	병 등 하는 맛있는 맛이 되었다. 하는 이 나는 뭐 나이를 가고 있다.	1
93	T43909-004	Metal	for Shift Arm	1
94				
105	QD3093-825	Washer	for Crossbar	2
111	002002 522			
111	Q03093-522	Washer	for Flywheel	1
113	Ω03093-621 "827	Washer	for Flywheel	1
114 115	" -827 REE2000	E.Ring	제하고 유럽다. 나는 나라 가장 없는 사고 말라고 한다. 나라고	1
		Mark , and a second	for Push Arm	1
116	REE2500		Play Arm x 1, Lock Lever x 1, Play Solenoid Lever	6
			x 1, Shaft x 1, Cassette Holder — Cassette Cover Ass'y x 2	
117	LPSP2605Z	Screw		
118	GPSA2612Z		Flywheel Cover	1
119	LPSP2605Z	(B) 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	Slide Base	4
'''	LI 31 20032		Mecha. Bracket (R) x 2, Metal x 1, Mecha. Bracket	6
120	LPSP2606Z		(L) x 2, Metal x 1	
120	LI 01 20002		Capstan Metal x 3, Flywheel Holder x 1, Motor	5

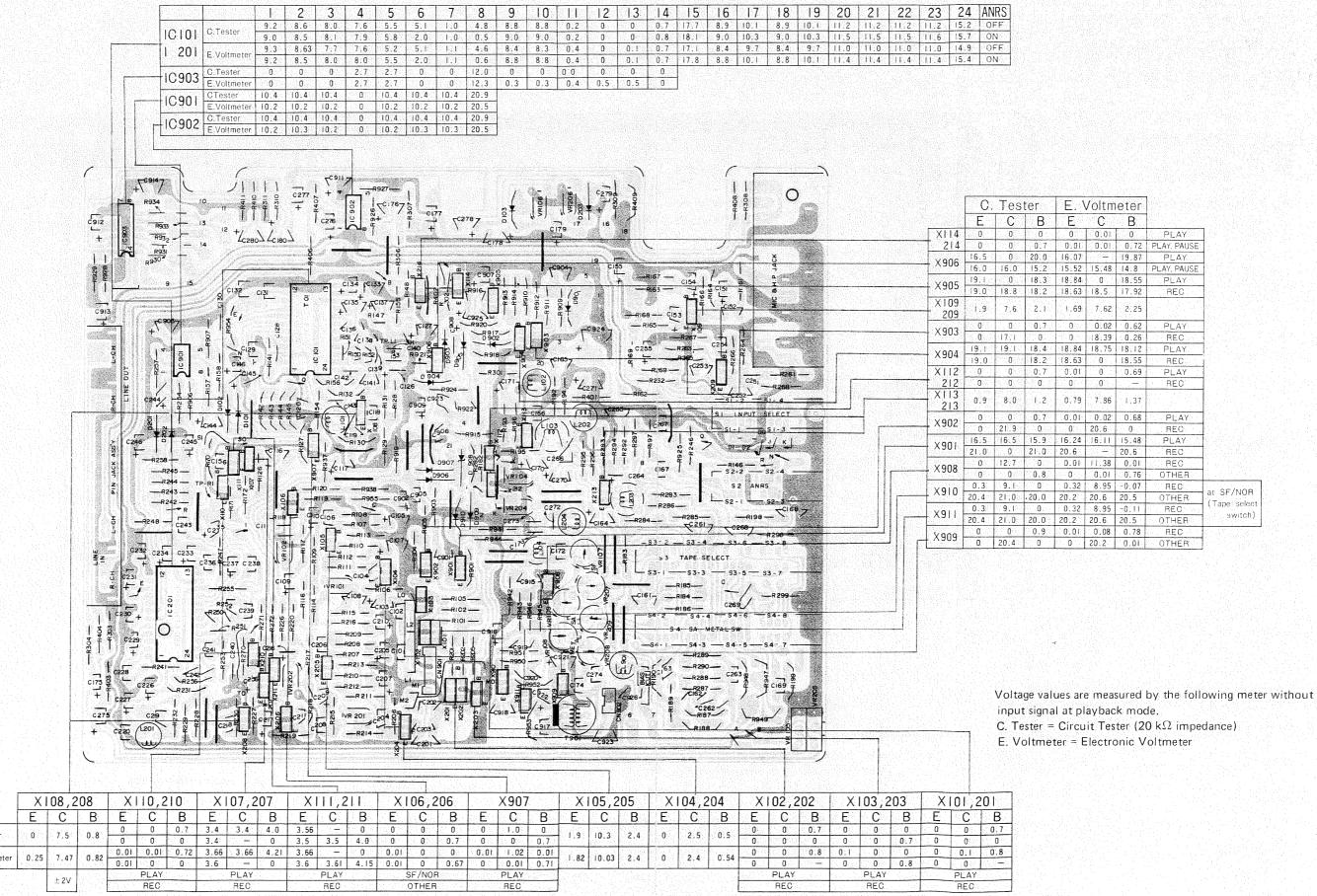
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
121	SBSB3006Z	Tapping Screw	Mecha, Ass'y	4
122	SBSB2608Z		Leaf Switch	1 1
123	SBSB2610Z		Flywheel Holder x 2, Motor Bracket x 3	5
124	SDSP2606Z	Screw	for P.W. Board	4
125	SPSX2010N		REC/PB and E. Heads	1
126	SPSP2006N		Head Mount Base	1
127	SPSP2603Z		Reel Motor	3
128	SPSP2605Z		Switch Holder	5
129	SPSP3003ZS		Solenoid x 2, Solenoid x 2	4
130				
131	SSSB2608Z	Screw	Counter	2
132	YRS2603B		Motor Pulley	1
133	SPSP2606Z		Reel Unit Ass'y	4
134	LPSP2604Z		Play Solenoid Bracket x 3, Rubber Stopper x 1	4

Main Amp. P.W. Board Parts List

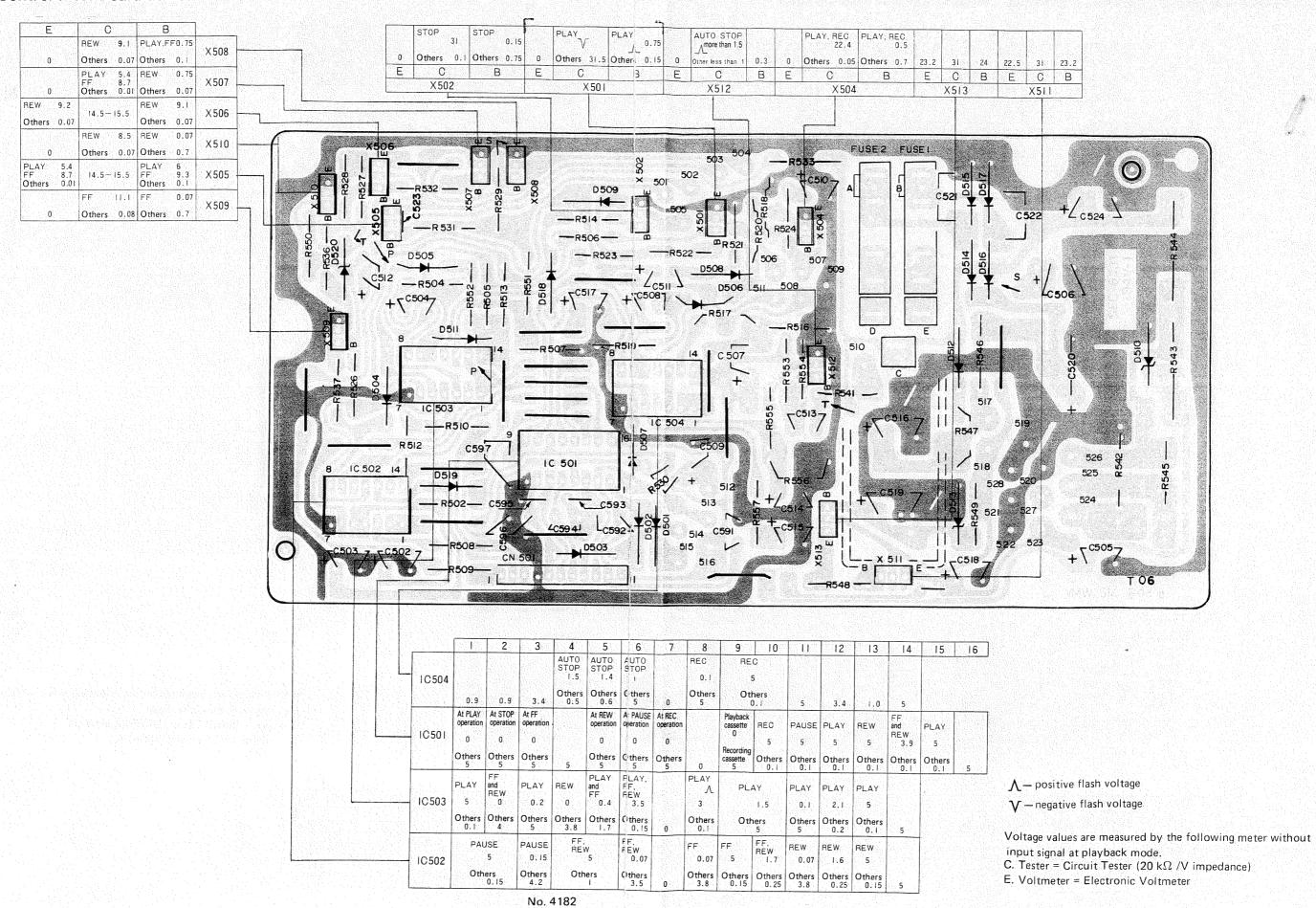
 \triangle parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	0'1
	VMW1522-002A	P.W. Board	No supply as parts ass'y	1
R101, 201, 118, 218, 143, 243	QRD141K-822	C. Resistor	8.2 kΩ ¼ W	6
R102,202,169,269,311,411,929	" -392		3.9 kΩ "	7
R105, 205, 114, 214, 132, 232,	" -472		4.7 kΩ "	14
147, 247, 170, 270, 182, 282,			- 10명	
924, 941				
R106, 206, 308, 408, 930, 931,	" -151		150 Ω "	9
932, 933, 934				
R107, 207, 183, 283,	QRZ0019-823	" (Low Noise)	82 kΩ "	4
R108, 208, 192, 292, 310, 410	QRD141K-273	C. Resistor	27 kΩ "	6
R109, 209, 117, 217, 120, 220,	" -103		10 kΩ "	19
171, 271, 129, 229, 154, 254,				
302, 402, 902, 919, 923, 946,				
955				
R110, 210	′′ -101		100 Ω ″	2
R111, 211	QRZ0019-823	" (Low Noise)	82 kΩ "	2
R112, 212	QRD141K-102	C. Resistor	$1 \mathrm{k}\Omega$	2
R113, 213	" -681		680 Ω ″	1
R115, 215	-184		180 kΩ ″	
R116, 216, 142, 242, 921	" -152		1.5 kΩ "	
R119, 219, 127, 227, 156, 256,	" -104		100 kΩ "	19
162, 262, 168, 268, 188, 288,				
194, 294, 303, 403, 912, 917,				
918				
R126, 226, 172, 272	" -394		390 kΩ "	4
R128, 228, 190, 290	" -124		120 kΩ "	1
R130, 230, 197, 297, 199, 299	" -121		120 Ω ″	1
R131, 231	·· -563		56 kΩ "	2
R141, 241, 146, 246, 164, 264,	" 473	"	47 kΩ "	14
306, 406, 905, 911, 913, 916,				
950, 951				
R144, 244, 150, 250, 152, 252	" -272	**	2.7 kΩ "	1 6
R145, 245, 301, 401	" -222		2.2 kΩ "	4
R148, 248, 195, 295	" -152		1.5 kΩ "	4
R151, 251	" -183		18 kΩ "	2
R153, 253	-680		68 Ω "	2
R155, 255	QRD146K-181	Unflamable Resistor	180 Ω "	2
R157, 257	QRD141K-474	C. Resistor	470 kΩ ″	2
1158, 258, 165, 265, 196, 296,	-223		22 kΩ "	13
904, 905, 918, 928, 937, 942, 945				
161, 261, 166, 266, 198, 298	" -820		82 Ω "	6
1163, 263, 186, 286	" -334		330 kΩ "	4
167, 267, 304, 404, 309, 409,	" -332		3.3 kΩ "	8
901, 925				
184, 284	ORD141K-393	C. Resistor	39KΩ ¼ W	2
1185, 285	" -564		560 kΩ "	2
189, 289	QRD141K-563	R. Commercial School Co.	56kΩ	2
307, 407, 910	" -154	1	150 kΩ "	3
187, 287, 906, 907, 914, 926,	" -683	图 清楚 发路 医二唑	68 kΩ "	7
927				
193, 293	" -125	Programme Control	1.2 MΩ "	2
903	QRD146K-331	Unflamable Resistor	330 Ω ″	1
909, 954	QRD141K-471	C. Resistor	470 Ω "	2

Printed Wiring Board Parts Main Amp. P.W. Board Parts



Control P.W. Board Parts



Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
R920, 947	QRD146K-151	Unflamable Resistor	150 Ω ¼ W	2
R922	QRD143K-153	C. Resistor	15 kΩ "	1
R943	QRD141K-151	"	150 Ω ″	1
R944	" -682	" .	6.8 kΩ "	1
R948	QRD146K-471	Unflamable Resistor	470 Ω ′′	1
R949	" -391	"	390 Ω ″	1
R952, 953	" -100	" " " " " " " " " " " " " " " " " " "	10 Ω "	2
	QWY123-022	Bas. Wire	for Jump	28
C101, 201	QCS11HJ-221	F. Ceramic Capacitor	220 pF 50 V	2
C102, 202	" -391	"	390 pF "	2
C103, 203, 109, 209, 151, 251	QEB41EM-475M	E. Capacitor (Low Leak)	4.7 μF 25 V	6
C104, 204	QC\$11HJ-101	F. Ceramic Capacitor	100 pF 50 V	2
C105, 205, 126, 226, 129, 229,	QEW41CA-336N	E. Capacitor	33 μF 16 V	15
130, 230, 131, 231, 179, 279, 903, 911, 914				
C106, 206	QCS11HJ-680	F. Ceramic Capacitor	68 pF 50 V	2
C107, 207, 132, 232	QEW40JA-227N	E. Capacitor	220 μF 6.3 V	4
C108, 208	QFM41HJ-183	Mylar Capacitor	0.018 μF 50 V	2
C110, 210, 155, 255, 171, 271	QEW41EA-336N	E. Capacitor	33 μF 25 V	6
C111, 211	QFM41HJ-822	Mylar Capacitor	0.0082 μF 50 V	2
C116, 216, 117, 217	QEB41EM-105N	E. Capacitor (Low Leak)	1 μF 25 V	4
C118, 218, 136, 236, 138, 238	QCS11HK-151	F. Ceramic Capacitor	150 pF 50 V	6
C119, 219, 172, 272	QCS11HJ-201	"	200 pF "	4
C120, 220, 143, 243, 163, 263	QFM41HJ-102	Mylar Capacitor	0.001 μF "	8
C127, 227, 901, 907, 909	QEW41EA-227N	E. Capacitor	220 μF 25 V	5
C128, 228	QEN41EA-335N	Non-polarized E. Capacitor	3.3 μF "	2
C133, 233, 134, 234, 154, 254, 908	QEW41AA-107N	E. Capacitor	0.0 %	7
C135, 235	QEW41EA-475N		47.1E "	2
	QEW41HA-105N	,,	4.7 μ1	11
C144, 244, 164, 264, 170, 270,	QEW41HA-105N		1 μF 50 V	111
176, 276, 180, 280, 921 C139, 239	QFM41HJ-272	Mylar Capacitor	0.0027 μF ′′	2
C140, 240	" -273	Wytai Capacitoi	0.0027 μF "	2
C140, 240	-273	,,	0.0068 μF "	2
C141, 241 C142, 242	QCS11HK-471	F. Ceramic Capacitor	470 pF "	2
C142, 242	QEW41AA-476N	E. Capacitor	47 μF 10 V	2
	į	" (Low Leak)		2
C146, 246	QEB41EM-335N		3.3 μF 25 V 470 pF 50 V	
C152, 252	QCS11HK-471	Ceramic Capacitor		2
C153, 253	QEB41HM-105M	E. Capacitor (Low Leak)	ξ μι	2
C156, 256	QEB41EM-105N	Covernia Comenia	1 μF 25 V	2
C162, 262	QCS11HJ-681	Ceramic Capacitor	680 pF 50 V	2
C161, 261	QFM41HJ-152	Mylar Capacitor	0.0015 μ1	2
C165, 265	104	Caramia Caracitan	0.1 μι	2
C166, 266	QCS11HJ-201	Ceramic Capacitor	200 μι	2
C167; 267	QFM41HJ-123	Mylar Capacitor	0.012 μ1	2 2
C168, 268	QFM41HJ-392	Mylar Capacitor	0.0039 μF 50 V	1
C 918, 919	1		0.0047 μ1	2
C173, 273	QCS11HJ-391	Ceramic Capacitor	290 bi	2
C174, 274	QFS32BK-221	Polystyrene Capacitor	220 pF	2
C175, 275	QEW41HA-105N	E. Capacitor	1 μF 50 V	2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
C177, 277	QEW41CA-476N	E. Capacitor	47 μF 16 V	2
C178, 278, 904, 912	QEW41CA-106N	"	10 μF "	4
C902, 913	QEW41EA-475N	"	4.7 μF 25 V	2
C905, 906	QFM41HK-822	Mylar Capacitor	0.0082 μF 50 V	2
C915, 920	QFM41HK-103	"	0.01 μF "	2
C916	QEW41CA-107N	E. Capacitor	100 μF 16 V	1
C917	QFM42AK-223	Mylar Capacitor	0.022 μF 100 V	1
C922	QEW41EA-106N	E. Capacitor	10 μF 25 V	1
C923	QFS32BK-682	Polystyrene Capacitor	0.0068 μF	1
C924	QEW41EA-477N	E. Capacitor	470 μF 25 V	
C925	QEW41CA-106N	11	10 μF 16 V	1
C926	QCF11HP-472	Ceramic Capacitor	0.0047 μF 50 V	1
VR101, 201	QVP8A0B-053	V. Resistor	PB. EQ.	2
VR102, 202, 104, 204	" -024	"	PB. GAIN, REC. GAIN	4
VR106, 206	" -052	"	METER	2
VR107, 207,	QVP4A0B-224	n-	BIAS NORMAL.	6
108, 208,			BIAS METAL,	
109, 209			BIAS CHROME	
L102, 201, 104, 204, 102, 202	VQP0001-183S	Inductor	18 mH	6
L103, 203	TAC000320-07		5.6 mH	2
L901	VQP0001-102S	"	1 mH	1.
T901	VQH1009-003	Osc. Coil		1
X101, 201, 102, 202	2SC1980(T,U)	Si. Transistor		-
X103, 203	2SC1684(R,S)	or. Transistor		4
X104, 204, 105, 205, 109, 209,	2SC1327(T,U)	"		2 8
113, 213				0
X106, 206, 107, 207, 110, 210, 111, 211, 114, 214, 902, 903, 907, 908	2SC1684(R,S)		:	14
X108, 208	2SC1327(U)	"		2
X112, 212	2SD468(B,C)	"		2
X901	2SA921(T,U)	"		1
X904, 905, 906	2SA564(R,S)	"		3
X909, 910, 911	2SC1685(R,S)	"		3
IC101, 201	TAT000351-01	Super ANRS IC		2
IC901	UPC4558C	IC.		1
IC902	UPC4557C	"		1
IC903	LB1416	"		1
D101, 201, 102, 202, 103, 203, 901	OA90	Ge. Diode		7
D902, 904–907, 909, 910	MA 150	Si. Diode		7
D903, 908	RD4.3E(C)	Zener Diode		2
\$1. \$2.	QSL4309-022	Lever Switch	Input Select	1
\$2. \$3	" -021	"	ANRS SW.	1
S4	QSL8309-001 QSL8209-012	"	Tape Select	1
	VMJ5002-003	MIC & HP Jack Ass'y	Metal	1
The state of the s	VMJ6002-003	PIN Jack Ass'y		1 1
CN901	QMV5005-006	Plug Ass'y	R/P Head	1
CN902	′′ -003	"	E. Head	
VR105, 205	QVD8A2A-014V	V. Resistor	Output Volume	1
	VKL3143-001	Board in Tab		6
	E43727-002	Wrapping Tab		22

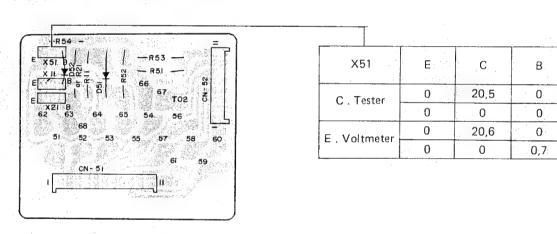
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Control P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q't
	VMW2514-006	P. W. Board	No supply as parts ass'y	1
R502	QRD141K-102	C. Resistor	$1 \text{ k}\Omega$ $1/4 \text{ W}$	1
R504.	-562	"	5.6 kΩ "	1
R505, 508, 510, 530	271	"	270 Ω "	4
R506, 517	101	"	100 Ω "	2
	" -122		1.2 kΩ "	2
R507, 552	-122		330 Ω "	
R509, 514	33.1			2
R512, 554	" -561		200 72	3
R513	-391		390 Ω "	1
R516	··· -681	"	680 Ω "	1
R518	" -473	"	47 kΩ "	1
R519, 520, 521, 522, 553	" -103	<i>"</i>	10 kΩ "	5
R523, 529	-222	"	2.2 kΩ "	2
R524, 555, 557	" -560	11.	56 Ω "	3
R537	-472	· ·	4.7 kΩ "	1
R527	" -152		1.5 kΩ "	1
	" -220	"	22 Ω "	2
R528, 541	-220	"		
R531	-001		000 75	1
R533	QRG019J-220	O.M.F. Resistor	22 Ω	1
R536	QRD121K-102	"	1 kΩ "	
R542	QRG019J-151	O.M.F. Resistor	150 Ω "	
R543	QRG029J-330		33 Ω "	'
R544	··· -120	"	12 Ω "	
R545	QRD126K-560	C. Resistor	56 Ω 1/2 W	
R546	QRG029J-331	O.M.F. Resistor	330 Ω	1
R547	QRD146K-3R3	C. Resistor	3.3 Ω 1/4 W	
R548	QRD146K-330	Unflamable Resistor	33 Ω 1/4 W Δ	
			8.2 kΩ "	
R549	ORD141K-822	C. Resistor		
R550	" -333 " 693	,,	22 K27	
R551, 526	-002	"	0.0 K34	3
R556	· -563	" 10 (A 10 A 10 A 10 A 10 A 10 A 10 A 10	30 K25	
R532	" -272		2.7 kΩ	
R533	QRG019J-220	O.M.F. Resistor	22Ω	1
	QWY123-022	Bas. Wire		15
C502	QEW40JA-227N	E. Capacitor	220 μF 6.3 V	
C503, 504	QEW41AA-107N	"	100 μF 10 V	1
C505	" -108N	"	1000 μF "	'
C507	*QEW40JA-228N	"	2200 μF 6.3 V	-
C508, 509, 511	QEW41EA-475N	"	4.7 μF 25 V	1
C510	" -106N	· · · · · · · · · · · · · · · · · · ·	10 μF "	
C512	QEB41EM-106N	Low Leak E. Capacitor	10 μF "	
C513, 514, 515	QEW40JA-477N	E. Capacitor	470 μF 6.3 V	:
	QEW403A-477N	. Oupacitor	470 μF 35 V	`
C516		"	•	1
C517	QEW41CA-106N	,,	10 μF 16 V	
C518	QEW41EA-106N	ir.	10 μF 25 V	
C519	": -107N		ίου μι	
C520	*QET41HR-228N	**	2200 μF 50 V	1
C521, 522	QCF12HP-103	F. Ceramic Capacitor	0.01 μF ''	2
C524	QEW41EA-108N	E. Capacitor	1000 μF 25 V	1
C525	QEB41EM-335N	Low Leak E. Capacitor	3.3 μF "	1
C591	QCF11HP-102	F. Ceramic Capacitor	0.001 μF 50 V	1
C592-597, 523	" -103	"	0.01 μF "	:
VE01 502	2501162/0 (1)	Si. Transistor		
X501, 502	2\$C1162(B, C)	St. Transistor		3
X504, 505, 506	2SC458(C, D)			-
X507, 508	2SC1213(C, D)	"		1
X509, 510	2SC458(C, D)	, , , , , , , , , , , , , , , , , , , ,		2
	2SC1162(B, C)	1		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
X512, 513	2SC458(C,D)	Si. Transistor		2
IC501 IC502, 503, 504	M54410P HD7400	1.C. "	or SN7400N	1 3
D501-509, 511, 518, 519 D510 D512, 514, 515, 516, 517 D513	1N34A RD5.1F(B) 10E1-B RD22EB3	Ge. Diode Zener Diode Si. Diode Zener Diode		12 1 5
CN501	QMV5004-011 E43727-002 E40130-001 TAR272448-01 LPSP3008ZS	Plug Ass'y Wrapping Tab Tab Heat Sink Screw	Touch Switch for X511 for X511	1 28 3 1
	SBSB3006V TAZ000331-02 QMF51A2-1R6BS " 1R6	Screw Fuse Holder Fuse "	for P.W. Board KD-A5A/B/E KD-A5B KD-A5A/E	4 4 2 2 2

Remote control P.W. Board Parts



Remot Con.

Rec Muting

ON

OFF

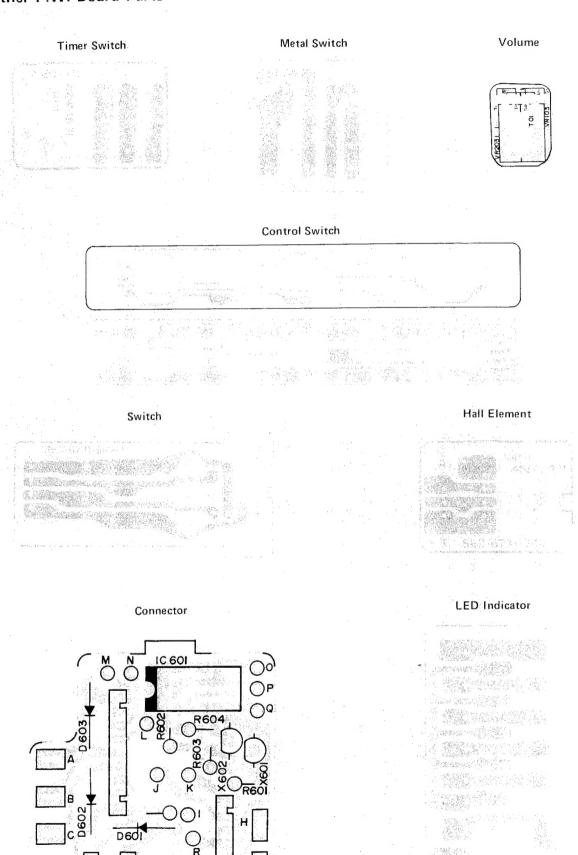
ON

OFF

REMOTE CONTROL P.W. BOARD PARTS LIST

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	*VMW4540-002	P. W. Board	for Remote Control	1
R51	QRD142K-223	C. Resistor	22 kΩ 1/4 W	1
R52	" -222	"	2.2 kΩ "	1
R53, 54	" -562	"	5.6 kΩ ″	2
X51	2SC1684(R,S)	Si. Transistor		1
D51	RD4.3E(C)	Zener Diode		1
D52	MA150	Si. Diode		1
CN52	QMV5005-008	Plug Ass'y		1
CN51	· -011	"		1
	E43727-002	Wrapping Tab		14
	VKL4567-001	Bracket	for P.W.B.	1
	LPSP3006ZS	Screw	"	2
	SBSB3006V	Tapping Screw	for Bracket	2

Other P.W. Board Parts

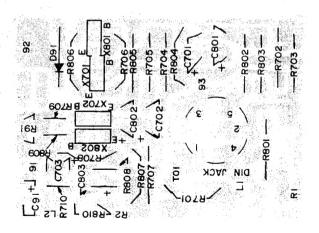


Other P.W. Board Parts List

 \triangle parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
(Timer Switch)	VMW4531-001	P.W. Board	for Timer Switch	1
(Metal Switch) S5 R935 R936	VMW4533-001 QSS2301-006 QRD146K-390 "-101	P.W. Board Slide Switch Unflamable Resistor	39 Ω 1/4 W 100 Ω "	1 1 1 1
(Volume) VR103, 203	VMW1522-002B QVE5A3A-054F	P.W. Board Variable Resistor	for Volume for Rec. Level	1 1
(LED Indicator) D301-306	VKS4146-001 VKM4525-002 TLR102	LED Holder P.W. Board LED	for Indicator (Red) (Level Indicator x 5, ANRS Indi- cator x 1)	1 1 6
(Control Switch) S501–506	VMW3519-003 QSP0022-002 TLR102 TLG102 VKZ4101-001	P. W. Board Touch Switch LED " Spacer	for Control SW. (Red) Rec. Indicator (Green) Play and Pause Indicators for LED	1 2 3
(Connector)	VMW4523-001 10E1-B QMV5005-006 "-009 VKL3143-001 QRD146K-102	P.W. Board Si. Diode Connector Tab Unflamable Resistor	1 kΩ 1/4 W	1 2 1 1 6
(Switch)	VMW4522-001 QSP0029-001 QVP5004-004	P.W. Board (L) Slide Switch Connector		1 2
(Hall Element)	VMW4530-001 DN6835 QMV5005-003	P.W. Board Hall I.C. Connector		1

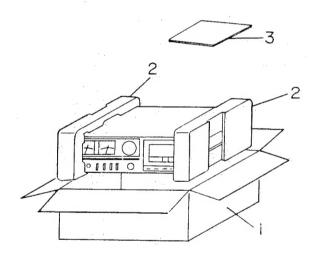
DIN P.W Board Parts (KD-A5 B/E)



DIN P.W. Board Parts List (KD-A5B/E)

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
R701, 801 R702, 802 R703, 803, 704, 804 R705, 805 R706, 806, 707, 807	VMW4544-001 QRD141K-102 "-332 "-224 "-222 "-103	P.W. Board C. Resistor	1 kΩ ¼ W 3.3 kΩ " 220 kΩ " 10 kΩ "	1 2 2 4 2 4
R708, 808 R709, 809 R710, 810 R91	" -394 ORD143K-334 " -103 " -332	"	390 kΩ " 330 kΩ " 10 kΩ " 3.3 kΩ "	2 2 2 1
C701,801,702,802,703,803 C91	QEW41HA-105N QEW41EA-336N	E. Capacitor	1 μF 50 V 33 μF 25 V	6
D91	RD4.3E(C)	Zener Diode		1
X701, 801, 702, 802	2SC1684(R, S) SDSP2605R	Si. Transistor DIN Jack Ass'y Screw	for DIN Jack	1 2

Packing



Packing Material List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1, 2	VPA3073-00C	Packing Case Ass'y	KD-A5A/B/E/J/U	1 set
10	'' -00D	"	KD-A5C	1 set
1	VPA3073-005	Case	KD-A5A/B/E/J/U	1
	" -006	"	KD-A5C	1
2	VPH1169-001	Cushion (L)		1
	VHP1170-001	" (R)		 1
	TKS000501-01	Sheet	for Deck	1
	VPK4121-001	Spacer	for Cassette Door	1
	QPGA060-06005	Envelope	for Deck	1
	AP4056A-036	"	for Provided Cord	1
	QPGB024-03404	71	for Instruction Book	1

Accessories

Parts No.	Parts Name	Remarks	Q'ty
VMP0002-00A VYA4001-00A VNN0035-301 TLJ000476-02 TLJ00477-02	PIN Cord Head Cleaning Stick Instruction Book ANRS Seal Super ANRS Seal		2 1 1 1
TLJ000443-01 BT20029 BT20025C BT2032 BT2023	Seal Warranty Card ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Made in Japan, KD-A5B KD-A5A KD-A5C KD-A5J/U for PX KD-A5J/U for PX	1 1 1 1
QZL1002-003BS TLT000505-01 BT20024B T46328-003 T44362-001	Warning Label UL/CSA Caution Label Special Reply Card Caution Label CSA Mark	KD-A5B KD-A5C/J KD-A5J/U for PX KD-A5A/B KD-A5C	1 2 1 1 1 1
T46328-004 V04062-001 T46328-001 VND4013-001 VNC5004-001	Caution Label Siemens Plug Caution Label Warning Label Mark Sticker	KD-A5E KD-A5U KD-A5U KD-A5A/E KD-A5E	1 1 1 1 1
E7795-1	EP. Mark	KD-A5U for PX	1

